

DESCRIPTION

HUMAN-DERIVED PROTEINS FORMING DOMAIN AND USE THEREOF

Technical Field

The present invention relates to a human-derived protein forming a domain, a polynucleotide comprising the same, an antibody against the protein, and a method for screening an active compound using them.

Background Art

Recently, genome nucleotide sequences of various model organisms, as represented by the human genome project, have been decoded one after another. "Structural genomics" is rapidly recognized as a new research area, and large-scale projects are progressing around the world. With respect to a large number of genes extracted from a mass of information about genomic sequences, structural genomics aims at systematic clarification of three-dimensional structure of a protein encoded by each gene and defining structure-function relationship.

In structural genomics, the number of proteins to be analyzed is considered to be 100,000 kinds, and it is not realistic to have a goal to determine the three-dimensional structures of all the proteins at present technical level.

Thus, it is first necessary to narrow down the number of target proteins to a reasonable number and select "representative structures". As a comprehensive three-dimensional structure analysis, projects having selected analysis targets from various viewpoints are initiated: for example, a) specifying relatively small sets of proteins as targets; b) specifying the kind of organisms having a small genome size such as hyperthermophilic archaebacterium, extreme thermophile, and mycoplasma; c) specifying life phenomena, such as signal transduction proteins as

disease-associated gene products, and proteins involved in signal transmission or gene expression.

In the flow of this research, as the first step, it is one goal to determine one or more representative three-dimensional structure regarding all the families, the number of which is predicted to be about 10, 000 (classified as family when amino acid sequences have about 30 to 35% homology). When one representative three-dimensional structure (basic structure) is obtained, structures of other proteins belonging to the same family can be analogized by modeling based on homology.

In this project, attention is drawn to the type of three-dimensional structure or the topology (basic structure: fold) of a functional domain, and research to clarify the correlation with a function for a basic structural unit of protein receives attention.

A protein having a plurality of domains is formed by combining functional domains like a module, and thus it is frequent that one domain appears in various proteins with the combination of different domains. Further, even if homology is not detected on a primary sequence, it is not unusual that proteins have the same basic structure. Therefore, the number of types of basic structures must be much smaller than the number of protein families, and it is expected that individual basic structures are associated with molecular functions. The number of the basic structures is predicted to be about 10,000 to 20,000, and if the analysis targets are within this number order it is sufficiently possible to determine the three-dimensional structures of all the target proteins.

Thus obtained information regarding the three-dimensional structure and functions of protein provides new findings for elucidation of vital functions, and makes a dramatic progress in developing drugs etc. (e.g. development by rational drug design or virtual screening). Therefore, such information is very useful in the industry.

Disclosure of the Invention

However, the fact is that three-dimensional structure analysis of protein requires a lot of time, labor and cost. In structural genomic research aiming at comprehensive and systematic structure analysis, it is an important challenge to attain high throughput structure analysis.

For the analysis of a three-dimensional structure of protein, NMR method and X-ray crystallography are mainly used.

To analyze a three-dimensional structure of protein using NMR, it is preferable that a sample has a molecular weight of about 20,000 or less (about 200 or less amino acid residues). In the case of analysis of the three-dimensional structure by X-ray analysis, the properties of proteins are limited due to preparation of crystals.

When a protein is randomly cleaved to obtain a protein suitable for structure analysis and a cleavage site exists in an amino acid sequence having a β -sheet or α -helix structure, many proteins modify their physiologically significant structures, become a string-like shape not taking a structure, or aggregate. In this way, it is meaningless to analyze a three-dimensional structure of protein not having an original in vivo structure. Therefore, it is desirable to obtain a protein forming a significant domain for three dimensional analysis.

To express a protein having a domain suitable for structural analysis (hereinafter referred to as "a protein forming a domain"), information regarding the position of domain boundary is necessary. In general, such domain boundary is predicted using amino acid sequence homology or the like as a clue. Even if protein expression is conducted based on the amino acid sequence of the thus predicted domain region, there is very low probability that a protein forming a domain actually having a structure (folding) is obtained and thus domain expression is one of bottlenecks in structure analysis.

A protein forming a CAP-Gly-like domain of the present invention has not been obtained so far, and the structure information thereof is unknown. Thus, these cannot be used for the drug discovery.

Disclosure of the Invention

In view of such circumstances, the present invention has been accomplished, and the present invention provides a protein described below, a production method thereof, a polynucleotide coding therefor, an antibody against the protein, and a screening method using them.

- (1) A protein consisting of an amino acid sequence represented by SEQ ID NO:1, or a salt thereof.
- (2) A protein consisting of an amino acid sequence represented by any one of SEQ ID NOS:3, 5, and 7, or a salt thereof.
- (3) A protein having an amino acid sequence derived from an amino acid sequence represented by SEQ ID NO:5 by deletion of 0 to 10 amino acid residues from the N-terminal and deletion of 0 to 5 amino acid residues from the C-terminal and having 92 to 106 amino acid residues, or a salt thereof.
- (4) A protein consisting of an amino acid sequence derived from an amino acid sequence of a proteins according to any one of the above (1), (2), and (3) and having deletion, substitution or addition of one to several amino acids and having a function substantially identical with that of the protein according to the above (1), (2), or (3), or a salt thereof.
- (5) A polynucleotide comprising a polynucleotide encoding an amino acid sequence of any one of proteins according to the above (1) to (4).
- (6) The polynucleotide according to the above (5), containing a nucleotide sequence represented by any one of SEQ ID NOS:2, 4, 6, and 8 .

- (7) A recombinant vector containing a polynucleotide according to the above (5) or (6).
- (8) A transformant which is transformed with a polynucleotide according to the above (5) or (6).
- (9) An antibody against a protein according to any one of the above (1) to (4).
- (10) A method for producing a protein or a salt thereof according to any one of the above (1) to (4), comprising the steps of culturing the transformant of the above (8) and producing the protein.
- (11) A method for producing a protein or a salt thereof according to any one of the above (1) to (4), characterized by using a cell-free protein synthesis system.
- (12) A method for screening a substance interacting with a protein or a salt thereof according to any one of the above (1) to (4) and/or a naturally existing protein or a salt thereof containing an amino acid sequence of a protein according to any one of the above (1) to (4), comprising the steps of bringing a candidate substance into contact with the protein of any one of the above (1) to (4); and confirming whether the candidate substance interacts with the protein.
- (13) A method for assaying a protein or a salt thereof according to any one of the above (1) to (4) using an antibody of the above (9).
- (14) A method for screening a substance interacting with a protein or a salt thereof according to any one of the above (1) to (4) using an assay method of the above (13).
- (15) A method for specifying a gene associated with a protein according to any one of the above (1) to (4), comprising the steps of expressing the protein according to any one of the above (1) to (4) in a cell; and examining an expression status of the gene in the cell.
- (16) A method for screening a substance interacting with a protein or a salt thereof according to any one of the above (1) to (4) and/or a naturally existing protein or a salt thereof containing an amino acid sequence of a protein according to any one of

the above (1) to (4), comprising the steps of determining an active site of the protein using information concerning three-dimensional structure of the protein according to any one of the above (1) to (4); and specifying a compound interacting with the active site on a computer.

(17) The screening method according to the above (16), wherein the information concerning three-dimensional structure of the protein is three-dimensional structure information of a protein consisting of amino acid residues from amino acid 8 to amino acid 98 among three-dimensional structure information described in any of three-dimensional structure coordinate tables 1 to 20.

(18) The screening method according to the above (17), wherein, among three-dimensional structure information described in three-dimensional structure coordinate table 1, a part of information corresponding to amino acid residues (Val26, Lys27, Glu47, Arg67, Lys83 and Ser86) is used.

(19) A method for screening a substance interacting with a protein or a salt thereof according to any one of the above (1) to (4) and/or a naturally existing protein or a salt thereof containing an amino acid sequence of a protein according to any one of the above (1) to (4), wherein a compound interacting with a specified active site is prepared as a candidate compound by a screening method according to any one of the above (16) to (18), the method comprising the steps of bringing the candidate substance into contact with a protein according to any one of the above (1) to (4); and confirming whether the candidate substance has interaction with the protein.

(20) A method for presuming a three-dimensional structure of a protein with an unknown structure, wherein homology modeling is conducted on the protein with an unknown structure comprising an amino acid sequence having 30% or more homology with an amino acid sequence of a protein according to any one of the above (1) to (4), by using information concerning three-dimensional structure information of a protein having amino acid residues from amino acid 8 to amino acid

98 among three-dimensional structures of a protein described in any of three-dimensional structure coordinate tables 1 to 20.

Brief Description of the Drawings

Fig. 1 shows SDS gel electrophoregrams of Examples 1 to 4. Fig. 1A shows an SDS gel electrophoregram of Example 1, Fig. 1B shows an SDS gel electrophoregram of Example 2, Fig. 1C shows an SDS gel electrophoregram of Example 3, and Fig. 1D shows an SDS gel electrophoregram of Example 4;

Fig. 2 shows SDS gel electrophoregrams of respective Comparative Examples. Fig. 2A shows an SDS gel electrophoregram of Comparative Example 1, Fig. 2B shows an SDS gel electrophoregram of Comparative Example 2, and Fig. 2C shows an SDS gel electrophoregram of Comparative Example 3;

Fig. 3 shows one-dimensional nuclear magnetic resonance spectrum and ^1H - ^{15}N HSQC spectrum of the protein represented by SEQ ID NO:1. Fig. 3A shows a one-dimensional nuclear magnetic resonance spectrum and Fig. 3B shows a ^1H - ^{15}N HSQC spectrum;

Fig. 4 shows one-dimensional nuclear magnetic resonance spectrum and ^1H - ^{15}N HSQC spectrum of the protein represented by SEQ ID NO:3. Fig. 4A shows a one-dimensional nuclear magnetic resonance spectrum and Fig. 4B shows a ^1H - ^{15}N HSQC spectrum;

Fig. 5 shows one-dimensional nuclear magnetic resonance spectrum and ^1H - ^{15}N HSQC spectrum of the protein represented by SEQ ID NO:5. Fig. 5A shows a one-dimensional nuclear magnetic resonance spectrum and Fig. 5B shows a ^1H - ^{15}N HSQC spectrum;

Fig. 6 shows one-dimensional nuclear magnetic resonance spectrum and ^1H - ^{15}N HSQC spectrum of the protein represented by SEQ ID NO:7. Fig. 6A shows a one-dimensional nuclear magnetic resonance spectrum and Fig. 6B shows a ^1H - ^{15}N HSQC spectrum;

Fig. 7 is a graph showing measurement results of viable cell count using 293 cells and HeLa cells; and

Fig. 8 is a photograph, instead of a figure, showing a detected image of western blotting in Example 9. Lane 1 is a lane of only a supernatant of HeLa cell extract (control), lane 2 is a lane of a product wherein IKK-gamma (1-419) and a FLAG sequence were expressed in a HeLa cell (control), and lane 3 is a lane of a product wherein IKK-gamma (1-419) and addition of a FLAG sequence to a CAP-Gly-like domain protein (464-554) were expressed in a HeLa cell.

Best Mode for Carrying Out the Invention

(Protein of the present invention)

A protein of the present invention is a protein forming a domain with a three-dimensional structure. More particularly, the present invention relates to a CAP-Gly-like domain protein represented by any one of SEQ ID NOS:1, 3, 5, and 7, or a protein having an amino acid sequence derived from an amino acid sequence represented by SEQ ID NO:5 by deletion of 0 to 10 amino acid residues from the N-terminal and deletion of 0 to 5 amino acid residues from the C-terminal and having 92 to 106 amino acid residues (that is, a protein wherein 0 to 10 amino acid residues and 0 to 5 amino acid residues are added to N-terminal and C-terminal of SEQ ID NO:1, respectively).

Hereinafter, the protein of the present invention will be described in terms of functions and the like.

CAP-Gly is an abbreviation of cytoskeletal-associated-protein-glycine-conserved domain, and constitutes a protein having a role for combining an intracellular minute organ or a chromosome with an intracellular microtubule. A CAP-Gly domain includes highly preservative region

abundant in glycine comprising about 42 residues [Riehemann K., Sorg C. Sequence homologies between four cytoskeleton-associated proteins. Trends Biochem. Sci. 18: 82-83(1993)]. As a protein containing this domain, there are known: restin, a protein of 160 kDa pertaining to an intermediate filament connecting an intracellular endoplasmic reticulum to a microtubule (also called as cytoplasmic linker protein 170 or CLIP-170); dynactin of vertebra [dynein associated polypeptide of 150 kDa (DAP)]; Drosophila glued complex which is a main component of activator I; yeast protein BIK1 which is considered necessary for the formation and stabilization of microtubules at mitosis and for spindle fusion at pairing; yeast protein NIP100 (NIP80); human protein CKAP1/TFCB; alp11 of *Schizosaccharomyces pombe* protein; and F53F4.3 which is presumed a protein of *C. elegans*.

Further, with respect to the relation between a CAP-Gly-like domain protein and diseases, Examples have shown that CAP-Gly-like domain has cell proliferation inhibition effect and that CAP-Gly-like domain binds to IKK-gamma. It is accordingly predicted that the CAP-Gly-like domain is a causative gene of cancer-related diseases. In other words, in Example 8, the CAP-Gly-like domain protein exhibited proliferation inhibition effect in HeLa cells (uterine cervix cancer cells) and 293 cells. In Example 9, the protein exhibited an ability to bind to IKK-gamma. Here, IKK-gamma is a factor which binds to a transcription factor NF-kB to inhibit transcription enhancing function of NF-kB. Further, NF-kB is formed as a heterocomplex from p50 and p65 derived from oncogenes of the *Rel* family. The CAP-Gly-like domain binds to IKK-gamma and exhibits proliferation inhibition activity, and it can be thus considered that its binding to IKK-gamma inhibits transcription enhancement of NF-kB. In this way, inhibition of cell proliferation is controlled by the CAP-Gly-like domain, and therefore the protein of the present invention has a function as a cancer suppressor gene product. It is a well-known fact that when a mutation in a cancer suppressor gene and lowered

proliferation inhibition activity lead to the onset of cancer (Yoichi Taya et al., Bio Science Term Library, Cancer Gene-Cancer suppressor gene, pp. 113-115, Yodosha, 2000). Retinoblastoma gene is well known, which causes retinoblastoma (Weinberg RA. The retinoblastoma protein and cell cycle control. Cell 81, 323-330 1995). Particularly, a gene (KIAA0849) used of the present invention is known as a causative gene of human Turban tumor syndrome (Nature Genet. 25, 160-165 2000). Still, it is unknown which domain of the protein expressed by KIAA0849 is a cause to the disease. However, in consideration of the cancer suppressing genetic function of the protein of the present invention, as exemplified by the present invention, CAP-Gly-like domain protein is predicted to be a cause of the disease. As application of the present invention, screening of drugs for Turban syndrome and optimizing a drug using three-dimensional structure information are assumed. It can be effectively used for the prevention and treatment of various cancer-related diseases.

Further, the present invention provides: a protein or a salt thereof consisting of an amino acid sequence represented by any one of SEQ ID NOS: 1, 3, 5, and 7, or an amino acid sequence derived from the amino acid sequence represented by SEQ ID NO:5 by deletion of 0 to 10 amino acid residues from the N-terminal and deletion of 0 to 5 amino acid residues from the C-terminal, which further comprises by deletion, substitution or addition of one to several (1 to 9, preferably 1 to 5, more preferably 1 to 2) amino acids and which has a function substantially identical to that of the protein consisting of an amino acid sequence derived from the amino acid sequence represented by SEQ ID NO:5 by deletion of 0 to 10 amino acid residues from the N-terminal and deletion of 0 to 5 amino acid residues from the C-terminal.

It should be noted that the term "having a cell proliferation inhibition function substantially identical to that of the protein of the present invention" means to have the same cell proliferation inhibition function as the protein of the present invention

has. Here, such molecular functions include functions and activities of the CAP-Gly-like domain protein in addition to connectivity with IKK-gamma.

IKK-gamma is an abbreviation of inhibitor-kappaB, and binds to NF(Nuclear Factor)-kB. NF-kB is a transcription factor that binds to an intron enhancer of immunoglobulin kL chain gene, and is a heterodimer composed of two kinds of subunits, p50 and p65. Here, both p50 and p65 exhibit homology with oncogene Rel and belong to the Rel family. As its function, NF-kB was initially considered to be specific to a B cell and to control the expression of a cell specific gene that is expressed as the B cell differentiates. Thereafter, the same effect was also observed to a non-B cell. Further, NF-kB binds to transcription control regions of various genes in addition to an immunoglobulin gene, and activates the transcription of these genes. In a non-B cell, an inactive NF-kB binds to IKK-gamma thereby to form a complex. IKK-gamma is inactivated by phosphorylation induced by extracellular stimulation. As a result, NF-kB is dissociated and transferred into each nucleus thereby to be activated, so that it functions as a transcription factor. As subunits of IKK-gamma, IKK- α , IKK- β , and bcl-3 are known.

(Sequence of protein)

The sequencing of the protein of the present invention is conducted as follows: i) presuming a domain region having a function of interest based on known protein sequence information; ii) preparing domain candidate sequence patterns having a basic pattern as the amino acid sequence of the thus presumed domain; iii) expressing a protein of each sequence pattern, evaluating structural stability of the obtained protein forming the domain, using a protein having a good result as a domain of interest, and defining each protein according to the amino acid sequence of the domain of interest. In other words, the protein of the present invention is empirically selected so as to have a stable structure when a part (having a function of

interest) of the full length protein is fragmented and expressed as a protein forming a domain. There exist domain candidates in the order of 100 at the stage of domain region prediction, but the number of domain candidates is narrowed down due to various factors and in fact carefully selected in the order of 10 to several tens. Therefore, use of thus selected proteins in three-dimensional structure analysis enables highly accurate and reliable structure analysis.

(Presumption of domain region)

A method for presuming a domain region in the full length protein is not particularly limited, and any of the following methods can be used: information science methods such as bioinformatics or computational science methods (see the specification of Japanese Patent Application No. 2001-309434), combination of deleted DNA library and GFP (see the specification of Japanese Patent Laid Open No. 2002-262873), and experimental methods such as limited breakdown (proteolysis) by protease. By using more accurate methods, the efficiency to select a domain of interest from domain candidates is improved.

(Production of domain candidate sequence pattern)

The above domain candidate sequence patterns are produced by extending or shortening the position of domain boundary to the N- or C- terminals on the basis of the above presumed domain region.

For example, prepared is a domain candidate sequence pattern having about several tens of kinds of new boundaries as the N-terminal, which are provided by extending several to tens of residues to the N-terminal or shortening several to tens of residues the C-terminal, from the position of the amino acid residue in the domain boundary at the N-terminal of the presumed domain region. Similarly, produced is a domain candidate sequence pattern having several kinds of domain boundaries as the C-terminal, which are selected in the domain boundary at the C-terminal of the presumed domain region.

(Extending and shortening of domain boundary)

As a method for extending or shortening a domain boundary of the above presumed domain region, employed is, for example, a method for synthesizing individual PCR primers capable of producing cDNAs corresponding to the above domain candidate sequence patterns and performing the creation by PCR. In particular, 2-step PCR method described in Japanese Patent Laid Open No.2003-9880 is suitable.

(Extraction of target domain from domain candidate sequence pattern)

In order to select a target domain having actually stable three-dimensional structure from the above domain candidate sequence patterns, protein synthesis is performed using cDNA of domain candidate sequence pattern produced as mentioned above.

An expression system for the domain candidate sequence pattern is not particularly limited, and any of conventionally known expression systems are usable.

Next, it is determined whether the obtained protein actually has a stable three-dimensional structure, and when a protein confirmed to have such three-dimensional structure is used as a protein in the present invention.

Examples of indicators for the stability of three-dimensional structure of protein include: biochemical indicators such as an indicator whether a synthesized domain protein is detected as soluble protein by SDS gel electrophoresis, etc. and also detected as uniform band corresponding to a proper molecular weight; and spectroscopic methods having as an indicator fluorescence strength of GFP fused at the C-terminal side, NMR spectrum, and CD spectrum.

The conventional process of determining a protein sequence has problems in that, for example, (1) a protein forming a target domain is not expressed in the above protein synthesis, or (2) though the protein is expressed, it causes aggregation or has

low solubility, etc. The present inventors have overcome these problems and completed the present invention.

(Confirmation of having stable three-dimensional structure)

Regarding the above NMR spectrum, the determination for folding of a protein forming a domain is shown below.

When a protein forming a domain is not folded in 1D spectrum, signals derived from methyl group proton such as Val, Leu, and Ile are observed around 0.8 ppm. However, when a protein is folded, the environment of methyl group proton is changed and signals are shifted to higher magnetic field side (around 0.7 ppm to -0.5 ppm).

The determination in ^1H - ^{15}N HSQC can be made by visual evaluation of the cross peak convergence degree and the uniformity of signal strength. In other words, when cross peaks are densely gathered, the status is considered not forming a three-dimensional structure. Conversely, when dispersed, the status is considered forming a stable three-dimensional structure. In this way, the stability of three-dimensional structure is evaluated.

(Vector)

A (recombinant) vector of the present invention can be obtained by ligating (inserting) a gene of the present invention into a proper vector. The vector for inserting the gene of the present invention thereinto is not particularly limited as long as it can be replicated in a host cell. Examples thereof include plasmid DNAs and phage DNAs.

Specific examples of the plasmid DNAs include *E. coli*-derived plasmids (e.g. pRSET, pBR322, pBR325, pUC118, pUC119, pUC18, and pUC19), *Bacillus subtilis*-derived plasmids (e.g. pUB110 and pTP5), yeast-derived plasmids (e.g. YEp13, YEp24, and YCp50). Specific examples of the phage DNAs include λ phage (Charon4A, Charon21A, EMBL3, EMBL4, λ gt10, λ gt11, and λ ZAP).

Further, animal viruses such as retrovirus and vaccinia virus and insect virus vectors such as baculovirus can be used.

To insert a gene of the present invention into a vector, a method is employed, which comprises first cleaving a purified DNA with a proper restriction enzyme and inserting the gene to a restriction enzyme site of a proper vector DNA or a multicloning site to ligate to the vector.

It is necessary for the gene of the present invention to be incorporated into a vector so that the gene exhibits its function. Hence, in addition to a promoter and the gene of the present invention, an enhancer or the like including a cis-element, a splicing signal, a poly A addition signal, a selective marker, and a ribosome junction sequence (SD sequence) can be ligated into the vector of the present invention, if desired. Further, examples of the selective makers include a dihydrofolate reductase gene, an ampicillin resistance gene, and a neomycin resistance gene. (Transformant)

A transformant of the present invention can be obtained by introducing a polynucleotide of the present invention into a host so that a gene of interest can be expressed therein. Due to easiness and good efficiency, vectors are used for transformation in many cases. Herein, a host is not particularly limited, as long as it can express DNA of the present invention. Examples thereof include bacterium belonging to genus *Escherichia* such as *Escherichia coli*, genus *Bacillus* such as *Bacillus subtilis*, genus *Pseudomonas* such as *Pseudomonas putida*, genus *Rhizobium* such as *Rhizobium meliloti*. Further, yeasts such as *Saccharomyces cerevisiae* and *Schizosaccharomyces pombe*, and animal cells such as COS cells and CHO cells can be used. Or insect cells such as Sf9 and Sf21 can be used.

When a bacteria such as *E. coli* is a host, it is preferable that the recombinant vector of the present invention comprises a promoter, a ribosome junction sequence, a gene of the present invention, and a transcription termination sequence while

autonomously replicable in the bacteria. In addition, a gene to control the promoter may be contained.

Examples of *E. coli* include *E. coli* K12 and DH1 and examples of *Bacillus subtilis* include *Bacillus subtilis*. As a promoter, anyone can be used as long as it can be expressed in a host such as *E. coli*. Promoters derived from *E. coli* or phages such as trp promoter, lac promoter, P_L promoter, and P_R promoter can be used. Artificially designed and modified promoters such as tac promoter can be used. A method for introducing a recombinant vector into a bacteria is not particularly limited, as long as it is a method for introducing a DNA into bacteria. There are, for example, a method using calcium ion (Cohen, S.N. et al. (1972) Proc. Natl. Acad. Sci., USA 69, 2110-2114) and electroporation method.

When yeast is a host, *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, and *Pichia pastoris*, for example, are used. In this case, a promoter is not particularly limited as long as it can be expressed in yeast. Examples thereof include gal1 promoter, gal10 promoter, a heat shock protein promoter, MF α 1 promoter, PHO5 promoter, PGK promoter, GAP promoter, ADH promoter, and AOX1 promoter. A method for introducing a recombinant vector into a yeast is not particularly limited as long as the method can introduce a DNA into a yeast. Examples of the methods include electroporation method (Becker, D.M. et al. (1990) Methods. Enzymol., 194, 182-187), spheroplast method (Hinnen, A. et al. (1978) Proc. Natl. Acad. Sci., USA 75, 1929-1933), and lithium acetate method (Itoh, H. (1983) J. Bacteriol. 153, 163-168).

When an animal cell is a host, a monkey cell COS-7, Vero, Chinese hamster ovary cell (CHO cell), a mouse L cell, a rat GH3, and a human FL cell can be used. As a promoter, SR α promoter, SV40 promoter, LTR promoter, and CMV promoter can be used, and further an early gene promoter of human cytomegalovirus may be used. Examples of the methods for introducing a recombinant vector into an animal

cell include electroporation method, calcium phosphate method, and lipofection method.

When an insect cell is a host, an Sf9 cell, an Sf21 cell or the like may be used. As a method for introducing a recombinant vector into an insect cell, calcium phosphate method, lipofection method, and electroporation method may be used, for example.

(Antibody)

Using the protein of the present invention as an antigen, an antibody against the antigen can be prepared.

[Production of a polyclonal antibody against the protein of the present invention]

An animal is immunized using the aforementioned antigen. In the case of a rabbit, a dose per animal of an antigen is 100 to 500 μ g using, for example, an adjuvant. As the adjuvant, Freund's complete adjuvant (FCA), Freund's incomplete adjuvant (FIA), aluminum hydroxide adjuvant, etc. are used.

Immunization is carried out by administration to mammals (e.g. non-human mammals such as a rat, a mouse, and a rabbit). Administration is conducted intravenously, hypodermically, or intraperitoneally. In addition, immunization interval is not particularly limited, and it may be several-day to several-week interval, preferably 2- to 3-week interval. At such interval, an animal is immunized 1 to 10 times, preferably 2 to 3 times. After 6 to 60 days from final immunization, antibody titer is measured. On a day when the greatest antibody titer is exhibited, blood is collected to obtain antiserum. The antibody titer is measured by ELISA (enzyme-linked immunosorbent assay), RIA (radioimmuno assay), or the like.

When purification of an antibody is needed from antiserum, the purification can be conducted by properly selecting a well-known method such as ammonium

sulfate precipitation method, ion exchange chromatography, gel filtration, and affinity chromatography, or combination thereof.

[Production of a monoclonal antibody against the protein]

An animal is immunized using the aforementioned antigen. If necessary, an adjuvant (commercially available Freund's complete adjuvant, Freund's incomplete adjuvant, etc.) may be mixed in the same manner as above to perform immunization effectively.

Immunization is carried out by administration to mammals (e.g. a rat, a mouse, and a rabbit). A dose per mouse of an antigen is 50 μ g. Administration is conducted mainly intravenously, hypodermically, or intraperitoneally. Further, immunization interval is not particularly limited, and it may be several-day to several-week interval, preferably 2- to 3-week interval at least two to three times. Then, antibody-producing cells are collected after final immunization. As an antibody-producing cell, there are a spleen cell, a lymph node cell, a peripheral blood cell, or the like, but a spleen cell is preferable.

[Cell fusion]

To obtain a hybridoma, cell fusion of an antibody producing cell and a myeloma cell is performed. As a myeloma cell to be fused with an antibody producing cell, an established cell line can be used, which is generally available and derived from an animal such as a mouse. Preferably used is a cell line which has drug selectivity, and has properties whereby it is unable to survive in HAT selective medium (containing hypoxanthine, aminopterin, and thymidine) without the fusion but able to survive only with the fusion with an antibody producing cell. Specific examples of myeloma cells include mouse myeloma cell lines such as P3X63-Ag.8.U1(P3U1), P3/NSI/1-Ag4-1, and Sp2/0-Ag14.

Next, cell fusion of the above myeloma cell with an antibody producing cell is performed. In an animal cell culture medium such as DMEM and RPMI-1640

medium without inclusion of serum, antibody producing cells and myeloma cells are mixed in the ratio of 15:1 to 25:1. Fusion reaction is performed in the presence of a cell fusion accelerator such as polyethylene glycol, or by electric pulse treatment (e.g. electroporation).

[Selection and cloning of hybridoma]

From cells treated by cell fusion, a hybridoma of interest is selected. For example, the treated cells are cultured in a medium containing hypoxanthine, aminopterin and thymidine, and growing cells are obtained as a hybridoma.

Next, screening is performed to determine whether an antibody of interest exists in a culture supernatant of increased hybridoma. The screening of hybridoma may be performed, without particular limitation, in a conventional manner. For example, a part of culture supernatant grown as hybridoma in a well is collected, and screened by ELISA (enzyme-linked immunosorbent assay), RIA (radioimmuno assay) or the like. Cloning of fused cells is performed by limiting dilution method or the like, and finally a hybridoma of a monoclonal antibody producing cell is established.

[Collection of monoclonal antibody]

As a method for collecting monoclonal antibodies from established hybridoma, a conventional cell culture method or the like may be employed. In the cell culture method, the hybridoma is cultured for 3 to 10 days under ordinary culture conditions (e.g. 37°C, 5% CO₂ concentration) in an animal cell culture medium such as RPMI-1640 or MEM media containing 10% bovine fetus serum, and antibodies are collected from resultant culture supernatant.

In the above antibody collection method, antibodies can be purified, if necessary, by properly selecting a well-known method such as ammonium sulfate precipitation method, ion exchange chromatography, affinity chromatography, and gel chromatography, or combination thereof.

(Production of the protein of the present invention)

The protein of the present invention can be obtained by culturing a transformant and collecting the protein from the culture. The term "culture" means, in addition to a culture supernatant, any of a cultured cell, a cultured fungus body, and a matter of crushed cell or fungus body. "A method for culturing a transformant of the present invention" is performed according to a conventional method used for culturing a host.

As a culture medium for culturing the transformant obtained by using microorganisms such as *E. coli* and yeast as a host, any of natural medium and synthetic medium may be used as long as it contains carbon source, nitrogen source, mineral, etc. which can be utilized as resource by the microorganisms and it effectively cultures the transformant. As the carbon source, used are carbohydrates such as glucose, fructose, sucrose and starch, organic acids such as acetic acid and propionic acid, and alcohols such as ethanol and propanol. As the nitrogen source, used are ammonium salts of inorganic or organic acids such as ammonia, ammonium chloride, ammonium sulfate, ammonium acetate, and ammonium phosphate, or other nitrogen-containing compounds as well as peptone, meat extract, and corn steep liquor. As inorganic matters, monopotassium phosphate, dipotassium phosphate, magnesium phosphate, magnesium sulfate, sodium chloride, ferrous sulfate, manganese sulfate, copper sulfate, and calcium carbonate may be used.

Culture is carried out preferably at 37°C under aerobic conditions such as shaking culture or aerobic culture with stirring for 6 to 24 hours. During the culture period, pH is kept at 7.0 to 7.5. The pH is adjusted preferably by using inorganic or organic acid, alkali solution, etc. During the culture, antibiotics such as ampicillin and tetracycline may be added to the culture medium if necessary.

When a microorganism is cultured which has transformed with an expression vector having used an inducible promoter as a promoter, an inducer may be added to

the medium if necessary. For example, when a microorganism transformed with an expression vector having used Lac promoter is cultured, isopropyl- β -D-thiogalactopyranoside (IPTG), etc. may be added to the medium. When a microorganism transformed with an expression vector having used trp promoter is cultured, indole acrylic acid (IAA) may be added to the medium.

As a medium for culturing a transformant obtained by using an animal cell as a host, RPMI1640 or DMEM media, which are commonly used, or these media having bovine fetus serum added thereto may be used. Culture is carried out at 37°C for 1 to 30 days in the presence of 5% CO₂. During the culture period, antibiotics such as kanamycin, penicillin etc. may be added to the medium.

After the culture, protein is extracted by crushing a fungus body or a cell when the protein is produced in a fungus body or a cell. Further, the protein of the present invention is produced outside a fungus body or a cell, the culture medium is used as it is or the fungus body or cell is removed by centrifugation, etc. Thereafter, the protein of the present invention can be isolated and purified from the above culture medium by using either alone or proper combination of biochemical methods commonly used for isolation and purification of protein, such as ammonium sulfate precipitate, gel chromatography, ion exchange chromatography, affinity chromatography, etc. During or after this purification process, the tag sequence, which was used for purification by protease treatment can be removed. (Method for producing a protein forming a domain using a cell-free protein synthesis system)

Using a cell-free protein synthesis system, the present invention provides a method for producing: a protein comprising an amino acid sequence represented by any one of SEQ ID NOS:1, 3, 5, and 7; and a protein comprising an amino acid sequence derived from the amino acid sequence represented by SEQ ID NO:5 by

deletion of 0 to 10 amino acid residues from the N-terminal and deletion of 0 to 5 amino acid residues from the C-terminal and having 92 to 106 amino acid residues.

A cell-free protein synthesis system is a system in which proteins are synthesized in vitro by using a cell extract. "A cell-free protein synthesis system" includes both a cell-free translation system for synthesizing proteins on ribosome through reading of information of mRNA, and a system including both a cell-free transcription system for synthesizing RNA using DNA as the template and a cell-free translation system. Since a cell-free protein synthesis system can modify a system easily, it has an advantage to easily construct an expression system suitable for a target protein. Further, a cell-free protein synthesis system is described in detail in Japanese Patent Laid Open No. 2000-175695.

[Cell extract]

A crude cell extract may be an extract from eukaryotic or prokaryotic cell in a state of high protein synthesis activity such as bacteria (e.g. *E. coli*), fungi (e.g. budding yeast), wheat germ, rabbit reticulocyte, murine L-cell, Ehrlich ascetic cancer cell, HeLa cell, and CHO cell (Clemens, M.J., Transcription and translation- a practical approach, (1984), pp. 231-270, Henes, B.D. and Higgins, S.J. eds., IRL Press, Oxford).

A crude cell extract preferably contains a component required for protein synthesis such as ribosome and tRNA. For preparation of a crude extract, a method described, for example, in Pratt, J.M. et al., transcription and translation - a practical approach, (1984), pp. 179-209, Henes, B.D. and Higgins, S.J. eds., IRL Press, Oxford, can be used. More specifically, the preparation can be conducted by crushing with a French press (Pratt, mentioned above) or crushing with glass beads. A preferable cell extract is *E. coli* S30 cell extract. S30 extract can be prepared from *E. coli* BL21 Codon Plus strain in accordance with generally known methods such as a method of Pratt et al. (above mentioned), or S30 extract commercially

available from Promega or Novagen can be used. The cell extract derived mainly from *E. coli*, wheat germ, and rabbit reticulocyte.

[Dialyzer]

A dialyzer which enables shaking or agitating while having internal and external dialysates isolated from each other via a dialysis membrane can be used. Examples of a small-scale reaction apparatus include Dispo Dialyzer (registered trademark) (manufactured by Spectrum) and Slidealyzer (registered trademark) (manufactured by Pierce).

Further, examples of a large-scale reaction apparatus include Spectra/Por (registered trademark) dialysis tube (manufactured by Spectrum).

[Internal dialysate]

In addition to a concentrated cell extract such as *E. coli* S30, an internal dialysate of a cell-free protein synthesis system, liquid for synthesis of protein, may contain DNA or RNA (mRNA and the like) encoding the target proteins, ATP (adenosine 5'-triphosphate), GTP (guanosine 5'-triphosphate), CTP (cytidine 5'-triphosphate), UTP (uridine 5'-triphosphate), buffer solutions, salts, amino acids, RNase inhibitors, antibacterial agents, RNA polymerase if necessary (in a case where DNA is used as template), and tRNA.

In addition, it can contain ATP regenerating systems such as combinations of phosphoenolpyruvate and pyruvate kinase, or creatine phosphate and creatine kinase, polyethyleneglycol (for example, PEG#8000), 3',5'-cAMP, folic acids, RNase inhibitors, and reducing agents (for example, dithiothreitol). On the other hand, an external dialysate (that is, protein synthesis substrate solution) can use the same composition of the internal dialysate excluding cell extract, RNase inhibitors, DNA or RNA, and RNA polymerase. For example, it may contain buffer solutions, ATP, GTP, CTP, UTP, salts, amino acids, and antibacterial agents. The concentration of added components can be determined arbitrarily.

[Buffer solution]

As the buffer solution, buffer agent such as Hepes-KOH and Tris-OAc can be used, for example. Examples of the salts include acetates (for example, ammonium salts, magnesium salts, and the like) and glutamate salts. Examples of the antibacterial agents include sodium azide and ampicillin. Examples of the amino acids include 20 kinds of amino acids that construct proteins. In a case where DNA is used as a template, RNA polymerase is added to the reaction system, and a commercially available enzyme such as T7 RNA polymerase can be used.

The internal dialysate is put inside the dialysis membrane, and the external dialysate is put outside the membrane. By shaking or stirring of the closed system in which substances can transfer through the membrane in dependence on the cutoff molecular weight, a target protein thus produced can be collected from the internal or external dialysates. For the reaction conditions such as temperature, stirring rate, and so forth, any condition can be applied depending on the kind of proteins. In the case of protein synthesis, the temperature to be applied is usually approximately 25 to 50°C, preferably 37°C. However, the temperature for cell-free protein synthesis system using a fungus extract derived from *Thermus thermophilus* may exceed 50°C. Further, the shaking rate or stirring rate may be low, and, for example, 100 to 200 rpm can be applied. While observing the production of the target protein, the reaction period can be properly determined.

In the cell-free protein synthesis system, it is desirable to exchange the external dialysate for a fresh external dialysate when the reaction rate is reduced. Moreover, the use of a dialysis membrane with a cutoff molecular weight of more than 10,000 Da, preferably more than approximately 50,000 Da, enables higher output of the proteins.

[Purification of protein]

Since the quantity and the number of kinds of mixed contaminants are extremely small, compared with the isolation from living cells, purification of the produced proteins can be achieved with relative ease. Depending on the properties of the proteins, conventionally known purification methods can be used either alone or, if necessary, in combination. Common techniques can be used, such as ammonium sulfate or acetone precipitation, acid extraction, anion or cation exchange chromatography, hydrophobic interaction chromatography, affinity chromatography, gel filtration chromatography, HPLC, electrophoresis, and chromatofocusing. During or after this purification process, a tag sequence used for purification can be removed by protease treatment. Identification and quantitative determination of the produced proteins can be achieved by activity assay, immunological assay, spectroscopic measurement, amino acid analysis, and the like, and, if necessary, comparing with a standard sample.

(Screening method)

As a screening method of the present invention, there is a method for screening a compound having interaction with a protein of the present invention, which comprises a process of bringing a candidate substance into contact with the protein or a salt thereof, and a process of confirming whether the protein interacts with the candidate substance. Here, the expression "having interaction" means to inhibit or strengthen molecular function and/or physiological activity of the protein by combining the compound with the protein and so on. In this screening method, the protein is brought into contact with the candidate substance, and it is determined whether molecular function or physiological activity of the protein is changed.

[Searching for an interactive substance using NMR]

When NMR is used to search for an interactive substance, the presence of interaction can be determined based on the existence of signal changes of the protein before and after addition of the candidate substance. In other words, when an

interactive candidate substance interacts with the protein, it is expected that a chemical shift value, a line width, the number, etc. of NMR signals derived from the vicinity of interactive site of the protein may be changed, and thus the presence of interaction can be determined by detecting such changes. In particular, ^{15}N -labeled protein is prepared with relative ease, and ^{15}N -HSQC spectrum obtained therefrom has relatively high resolution and sensitivity. Further, the spectrum is less affected by NMR signals derived from added interactive candidate substance, and thus it is very useful.

(Assay method)

The protein of the present invention can be assayed by using, for example, an antibody of the present invention. Examples of a method for assaying a protein using an antibody include sandwich immunoassay, competitive method, immunometric method, and nephelometry method. Further, it is also detectable using labels such as radioisotope, an enzyme, and a fluorescent material.

(Screening method using assay method)

The antibody of the present invention is specifically combined with the protein of the present invention, and thus it can be used for screening a compound having interaction with the protein of the present invention. As a screening method therefor, known screening methods are usable.

In addition, according to the assay method of the protein of the present invention using the antibody of the present invention, diseases involving the protein of the present invention can be prevented and diagnosed.

(Three-dimensional structure analysis)

The three-dimensional structure of the protein can be analyzed by NMR structure analysis, X-ray structure analysis, etc.

(NMR)

A sample used for NMR is not particularly limited, but a sample in which ^{12}C or ^{14}N in the protein is labeled with a stable isotope, ^{13}C or ^{15}N nuclear is used preferably (multi-nuclear and multi-dimensional NMR measurement).

Stable-isotope labeling of a protein is a common technique, and is described in Clore, G.M. & Gronenborn, A.M., *Science*, 252, p.1390-1399, 1991, or the like. In particular, analysis using a protein sample having a main chain labeled with ^{15}N uniform stable isotope is easily and preferably carried out. In addition, a protein having the skeleton of the main chain labeled with at least two or more kinds of isotopes of ^{13}C , ^{15}N , and ^2H may be used (National Publication of International Patent Application No. 2001-514239).

It is preferable to measure ^{15}N - ^1H spin coupling constant by observing IPAP-HSQC spectrum, etc. The term "IPAP-HSQC spectrum" is a measurement method for reading ^{15}N - ^1H spin coupling constant effectively by simultaneously observing two HSQC spectra of level and reverse phases, and adding both spectra thereby to prevent overlapping of the signals.

Chemical shift attribution is performed by two or more kinds of NMR methods. For example, 2D, DOQ-COSY, TOCSY, NOESY, and HSQC are well known as two dimensional NMR, and HNCO, HCACO, HNCA, HCA(CO)N, HN(CO)CA, HNHB, CBCANH, H(CA)NH, HBHA(CO)NH, HCCH-COSY, HCANH, HCCH-TOCSY, HCACON, ^{15}N -NOESY-HSQC, ^{13}C -NOESY-HSQC are well known as multi dimensional NMR. A general technique of NMR is known, and described in, for example, "NMR of Protein" (Yoji Arata, Kyoritsu Shuppan, Co., Ltd., 1996); "Basic Biochemical Experiment Method Vol. 3, Protein I, Detection and Structure Analysis Method" edited by Japan Biochemical Society" Chapter 18, Three-dimensional structure analysis by NMR (Tokyo Kagaku Dozin, Co., Ltd., Feb. 2001); Takashi Ito et al., *Journal* Vol. 21 of Japan Agrochemical Society, pp.

450-459, 1996; and Toshiyuki Tanaka, Chemistry and Industry Vol. 49, No. 2, pp. 155-158, 1996.

When NMR is used for three-dimensional structure analysis, it is a common method that the distance between protons is estimated in accordance with the scale of nucleus overhauser effect between individual protons of the protein, and based on the distance information, the three-dimensional structure is determined. It is possible to obtain a three-dimensional structure with precision by adding information concerning a chemical shift value, a scalar coupling value, a residual dipolar coupling value, hydrogen bond or the like.

Many programs for structure analysis from NMR data are known. Structure analysis is performed preferably by using NMR Pipe, PIPP, Capp, Felix, NMR View, and XEASY for chemical shift attribution, and by using X-PLOR, CNS, DYANA, and DYNAMO as three dimensional calculation softwares.

(X-ray crystallography)

When X-ray crystallography is used for three-dimensional structure analysis, an electron density map is calculated based on an X-ray diffraction image of crystallized protein, and the three-dimensional structure is determined. In other words, the protein is crystallized and mono-colored X-ray is applied to the crystal, and based on the obtained X-ray diffraction image, the three-dimensional structure of the protein is clarified (Blundell, T.L. and Johnson, L.N., PROTEIN CRYSTALLOGRAPHY, pp. 1-565, (1976) Academic Press, New York).

(Screening method based on three-dimensional structure information)

Next, the present invention provides, using information concerning three-dimensional structure of the aforementioned protein, a method for screening a compound having interaction with the protein or a salt thereof, which comprises a process of determining an active site of the protein, and a process of searching for the compound having interaction with the active site on a computer.

(In silico screening)

Regarding drug design based on three-dimensional structure of a molecule, there are many reviews including Drug Development, Vol. 7 "Molecular Design" (Hirokawa Shoten). Specifically, screening is first conducted by a computer on the library (e.g. about 150,000 kinds) of low molecular compounds (1000 or less molecular weight) stored in a relational database such as Oracle by use of a flexible ligand binding simulation software such as FlexiDock and FlexX. The three-dimensional structure of a chemical compound of this library is designated by a program such as CONCORD, and it is possible to select a substance that can be inserted into an active site. Among the selected substances, a compound that is fit into the active site more precisely is visually selected by using a simulation program such as Insight II or MOE. Computer softwares used in a series of the above processes are the following commercially available ones.

FlexiDock: Tripos Inc. FlexX: Tripos Inc. CONCORD: Tripos Inc. Oracle: Oracle Corp. Insight II: Molecular Simulations Inc. MOE: Chemical Computing Group Inc.

Another method is to design candidate compounds including unknown substances by a computer. As such method, the following methods are known: a method for searching for a compatible compound by aligning a chemical group such as methyl and ethyl in an active site; and a method of aligning an atom in an active site by a computer program.

(Wet screening)

To select a major candidate compound having interaction with the protein of the present invention, the candidate compound obtained by in silico screening is brought into contact with the protein of the present invention and the molecular function or physiological activity of the protein of the invention is determined. Based on the three-dimensional structure data of the candidate compound and the

protein of the invention, the candidate compound is modified so as to have more desirable structure.

The selected compound is synthesized and actually interacted with the protein for screening. With respect to a compound that has changed the activity of the protein, further testing relating to in vitro activity, in vivo dynamics, or toxicity is performed by animal tests.

(Pharmaceutical Agent containing an interactive substance)

A substance interacting with the protein of the invention can be used as a preventive and/or therapeutic agent to diseases involving the protein. Such a pharmaceutical agent can be orally or parenterally administered to the whole body or locally.

When the drug of the invention is orally administered, it may be prepared in any type of formulation such as a tablet, a capsule, a granule, powder, a pill, trochiscus, internal use liquor, a suspension, an emulsion, and syrup, and may be prepared as a dried product which is dissolved again at administration. Further, when the drug of the invention is parenterally administered, a formulation such as an intravenous injection (including intravenous drip), intramuscular injection, intraperitoneal injection, subcutaneous injection, and suppositories may be selected. In the case of formulations for injection, the drug may be provided in the form of an ampule with a unit dose or a container for large volume administration.

These formulations can be produced by conventional methods by properly selecting an excipient, an extender, a binder, a wetting agent, a disintegrator, a lubricant, a surfactant, a dispersant, a buffer, a preservative, a solubilizing agent, an antiseptic, a corrective, an analgesic agent, a stabilizing agent, and an isotonic agent, which are commonly used for formulation.

The above various formulations may contain a pharmaceutically acceptable carrier or additive. Examples of these carriers and additives include water,

pharmaceutically acceptable organic solvents, collagen, polyvinyl alcohol, polyvinyl pyrrolidone, carboxyvinyl polymer, sodium alginate, water-soluble dextran, carboxymethyl starch sodium, pectin, xanthan gum, gum Arabic, casein, gelatin, agar, glycerol, propylene glycol, polyethylene glycol, Vaseline, paraffin, stearyl alcohol, stearic acid, a human serum albumin, mannitol, sorbitol, and lactose. Additives to be used are selected from the above-mentioned property or in combination according to the type of formulation of the invention.

A dose of the drug of the invention can be varied depending on the age of a recipient, administration path, and the number of administration times, and thus it can be changed in a wide range. In this case, the effective dose of the protein of the invention and the effective dose to be administered in combination with suitable diluent and pharmacologically usable carrier are selected in the range of 0.01 mg to 1,000 mg per 1 kg of the body weight for one time, and the administration is conducted preferably once to several times per day for one day or more.

(Description of Sequences)

The sequence numbers of the description indicate the following sequences.

SEQ ID NO:1 represents an amino acid sequence of a CAP-Gly like domain protein (KIAA0849 protein (464-554)).

SEQ ID NO:2 represents a DNA sequence encoding the protein of SEQ ID NO:1.

SEQ ID NO:3 represents an amino acid sequence of a CAP-Gly like domain protein (KIAA0849 protein (454-554)).

SEQ ID NO:4 represents a DNA sequence encoding the protein of SEQ ID NO:3.

SEQ ID NO:5 represents an amino acid sequence of a CAP-Gly like domain protein (KIAA0849 protein (454-559)) (amino acid sequence having amino acid

residues NTAPVQESPP and VSNQI added to the N- and C- terminals of the amino acid sequence of SEQ ID NO:1).

SEQ ID NO:6 represents a DNA sequence encoding the protein of SEQ ID NO:5.

SEQ ID NO:7 represents an amino acid sequence of a CAP-Gly like domain protein (KIAA0849 protein (464-559)).

SEQ ID NO:8 represents a DNA sequence encoding the protein of SEQ ID NO:7.

SEQ ID NO:9 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:10 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:11 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:12 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:13 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:14 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:15 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:16 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:17 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:18 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:19 represents a nucleotide sequence of a primer used for the following Example.

SEQ ID NO:20 represents an amino acid sequence in which a plurality of amino acid residues are added to the N- and C- terminals of the amino acid sequence of SEQ ID NO:1.

SEQ ID NO:21 represents an amino acid sequence of IKK-gamma (1-419).

SEQ ID NO:22 represents a nucleotide sequence of cDNA of the protein represented by SEQ ID NO:21.

[Examples]

The present invention will be described in detail by showing Examples below, but the scope of the present invention is not limited by them.

[Example 1]

(1) Presumption of domain

The presumption of a domain was conducted in the following manner.

First, 1) <SCOP method> when a region having homology with a sequence contained in protein database SCOP (Version 1.55) was detected from query sequences, such region was predicted as a domain. BLASTP was used as homology detection method, and it was determined to be homologous when E-value had 0.1 or less hits.

2) <PFAM method> when a region having homology with a sequence profile contained in protein motif database PFAM (version 6.5) was detected from query sequences, such region was predicted as a domain. HMMER was used as homology detection method, and it was determined to be homologous when E-value had 0.1 or less hits.

3) <ProDom method> when a region having homology with any of consensus sequences contained in protein motif database ProDom (a version obtained through the Web January, 2001) was detected from query sequences, such region was predicted as a domain. BLASTP was used as homology detection method, and it was determined to be homologous when E-value had 0.1 or less hits.

4) <NR method> homology search on query sequences was conducted by BLASTP in protein sequence data set (NCBI-nr), and when E-value had 0.1 or less hits, such homologous regions were grouped and predicted as domain.

5) <PASS method> homology search on query sequences was conducted by BLASTP in protein sequence data set (NCBI-nr), and the frequency of detecting homology was calculated. Peaks and troughs were used to indicate high frequency parts and low frequency parts, and one peak was predicted as domain so that a trough part is a domain boundary.

6) <No Hit method> regions (residual regions) that were not detected as domain by using any of the above 1) to 5) methods were predicted as domain.

7) <Differential domain boundary setting method> regarding the above six domain predictions, when a hit region was overlapped, high priority was given to 1), and followed by 2), 3), 4), 5), and 6) in this order. When the deviation of the domain boundary includes 30 residues or more and such residues are present in more length in the N- or C-terminal side in accordance with definition by lower priority method, though a hit region was overlapped, such differential sequence was predicted as other domain.

Among domain regions presumed by any of the above methods, regions having one or more Low-Complexity regions (sequence region with low complexity) or having the full length of less than 30 residues were removed.

Regarding the amino acid sequence of KIAA0849 protein, the presumption of domain region was conducted in the above-mentioned manner. According to NR

method, the range of 496th to 539th of amino acid residues was presumed as domain region. This domain region had no Low-Complexity region (sequence region with low complexity) and has the full length of 30 or more residues. Hence, this region was finally considered a result of domain presumption by bioinformatics.

(2) Producing Constructs

With respect to the protein (here referred to as presumed domain) having amino acid sequence of 496 to 539 amino acid residues of this KIAA0849 protein, protein synthesis reaction was conducted using a cell-free protein synthesis system described below. Thereafter, the obtained sample was subjected to SDS gel electrophoresis by conventional method to examine protein expression status.

As a result, a protein of interest was not expressed from information concerning amino acid sequence of the presumed domain.

Therefore, using the amino acid sequence of the presumed domain as a standard, constructs were systematically produced by extending or shortening the domain boundary position of the presumed domain, relative to amino acid sequence of KIAA0849 protein, by addition or deletion of several residues at the N- and C-terminals, respectively.

In other words, using, for example, 496th amino acid residue of KIAA0849 protein as a standard, a pattern having 10 residues added to the N-terminal side and 10 residues deleted from the C-terminal side was prepared. Also, using 539th amino acid residue of KIAA0849 protein as a standard, a pattern having 5 residues deleted from the N-terminal side and 5 residues added to the C-terminal side was prepared.

Using the constructs thus produced, protein expression for individual patterns was performed and their expression statuses were evaluated by SDS gel electrophoresis.

[Example 1]

In this example, among constructs produced in the above manner, KIAA0849 protein (464-554): (SEQ ID No. 1) having a CAP-Gly like domain suitable for three-dimensional structure analysis was studied. Results of the study are described.

(1) Construction of expression vector

(i) First PCR

Using a recombinant *E. coli* culture solution containing a plasmid wherein cDNA (DDBJ accession No. AB020656.2) encoding KIAA0849 protein was cloned in a plasmid pBluescriptII SK+, PCR was performed by use of 5'-primer 1 (SEQ ID NO:14) and 3'-primer 1 (SEQ ID NO:15). The composition of the PCR reaction solution is shown in Table 1. The program followed a conventional PCR protocol.

[Table 1] Composition of reaction solution for first PCR

Composition	Concentration	Amount	Final concentration
Template plasmid	($\times 1/10$)	3 μL	($\times 3/200$)
5'-primer 1	0.25 μM	4 μL	0.05 μM
3'-primer 1	0.25 μM	4 μL	0.05 μM
dNTPs(Toyobo)	2 mM	2 μL	0.2 mM
Expand HiFi buffer solution (containing 15 mM magnesium chloride) (Roche)	(10 \times)	2 μL	(1 \times)
Sterile distilled water		4.85 μL	
DNA polymerase (Roche)	3.5 U/ μL	0.15 μL	0.02625 U/ μL
Total amount		20 μL	

(ii) Secondary PCR

Next, second PCR was performed using the first PCR product obtained in the foregoing reaction, 5'-primer 2 (SEQ ID NO:17) having His tag sequence in the downstream of T7 promoter sequence, 3'-primer 2 (SEQ ID NO:18) having a T7 terminator sequence, and universal primer-U2 (SEQ ID NO:19). The composition of the PCR reaction solution is shown in Table 2. The program was the same as the above first PCR.

[Table 2] Composition of reaction solution for second PCR

Composition	Concentration	Amount	Final concentration
First PCR product (template)	($\times 1/5$)	5 μL	($\times 1/20$)
5'-primer 2	2 μM	0.5 μL	0.05 μM
3'-primer 2	2 μM	0.5 μL	0.05 μM
Universal primer U2	100 μM	0.2 μL	1 μM
dNTPs (Toyobo)	2 mM	2 μL	0.2 mM
Expand HiFi buffer solution (containing 15 mM magnesium chloride) (Roche)	(10 \times)	2 μL	(1 \times)
Sterile distilled water		9.65 μL	
DNA polymerase (Roche)	3.5 U/ μL	0.15 μL	0.02625 U/ μL
Total amount		20 μL	

As a result, a linear double stranded DNA fragment was amplified, which can express a fusion protein of His tag sequence and KIAA0849 protein (464-554) under the control of T7 promoter.

(iii) Cloning

The DNA fragment obtained by the above second PCR reaction was cloned in a vector pPCR2.1 (Invitrogen) with TOPO TA-cloning kit (Invitrogen), and thereby an expression vector P011213-03 was constructed.

(2) Expression of KIAA0849 protein (464-554)

(i) Synthesis of ^{15}N -labeled CAP-Gly-like domain by cell-free protein synthesis method using dialysis

E. coli S30 extract was prepared from *E. coli* BL21 codon plus strain according to a method of Zubay et al. (Annu. Rev. Geneti. 7, 267-287, 1973).

The protein synthesis reaction was conducted overnight at 30°C in the scale of 3 mL of reaction solution having the composition of Table 3 and 30 mL of external dialysate having the composition of Table 4.

[Table 3] Composition of reaction solution

Composition	Final concentration
Hepes-KOH (pH 7.5)	58 mM

DTT	1.8 mM
ATP	1.2 mM
CTP	0.8 mM
GTP	0.8 mM
UTP	0.8 mM
Creatine phosphate	80 mM
Creatine kinase	0.25 mg/mL
Polyethylene glycol (average molecular weight 8000)	4.0%
3',5'-cAMP	0.64 mM
L(-)-5-formyl-5,6,7,8-tetrahydroforic acid	68 µM
<i>E. coli</i> total tRNA	175 µg/mL
Potassium glutamate	210 mM
Ammonium acetate	27.5 mM
Magnesium acetate	10.7 mM
[¹⁵ N] labeled amino acid mixture	3 mg/mL
L-[¹⁵ N] cystein	1 mM
L-[¹⁵ N] tryptophan	1 mM
L-[¹⁵ N] glutamine	1 mM
L-[¹⁵ N] asparagine	1 mM
Sodium azide	0.05%
T7 RNA polymerase	66.6 µg/mL
S30 extract	30%
Template DNA (P011213-03)	1 µg/mL

[Table 4] Composition of external dialysate

Composition	Final concentration
Hepes-KOH (pH 7.5)	58 mM
DTT	1.8 mM
ATP	1.2 mM
CTP	0.8 mM
GTP	0.8 mM
UTP	0.8 mM
Creatine phosphate	80 mM
Creatine kinase	0.25 mg/mL
Polyethylene glycol (average molecular weight 8000)	4.0%
3',5'-cAMP	0.64 mM
L(-)-5-formyl-5,6,7,8-tetrahydroforic acid	68 µM
Potassium glutamate	210 mM
Ammonium acetate	27.5 mM
Magnesium acetate	10.7 mM
[¹⁵ N]-labeled amino acid mixture	3 mg/mL
L-[¹⁵ N] cystein	1 mM
L-[¹⁵ N] tryppptophan	1 mM
L-[¹⁵ N] glutamine	1 mM
L-[¹⁵ N] asparagine	1 mM

(ii) Determination of expression status by SDS gel electrophoresis

After the termination of the synthesis reaction, SDS gel electrophoresis was performed by a conventional method, and the expression status of the obtained protein was determined.

Results thereof are shown in Fig. 1A. According to Fig. 1A, it was confirmed that KIAA0849 protein (464-554) (CAP-Gly-like domain protein having an amino acid sequence represented by SEQ ID NO:1) was expressed. In Fig. 1A, the first lane is a lane of a protein containing a fraction of interest in purification, and M is a marker lane.

[Examples 2 to 4]

In Examples 2 to 4, among constructs produced in the above manner, KIAA0849 protein (454-554) (Example 2), KIAA0849 protein (454-559) (Example 3), and KIAA0849 protein (464-559) (Example 4) were studied. Results of the study are described.

Specifically, primers used for the first and second PCRs of Example 1 were changed to those shown in Table 5 and except that, an expression vector was constructed in the same manner as Example 1. The obtained linear double stranded DNA fragment was used as a template DNA for protein synthesis.

[Table 5] Sequence numbers of each primer used for first and second PCRs

Example No.	First PCR		Second PCR		
	5'-primer 1	3'-primer 1	5'-primer 2	3'-primer 2	Universal primer
1	SEQ ID NO:14	SEQ ID NO:15	SEQ ID NO:17	SEQ ID NO:18	SEQ ID NO:19
2	SEQ ID NO:13	SEQ ID NO:15	SEQ ID NO:17	SEQ ID NO:18	SEQ ID NO:19
3	SEQ ID NO:13	SEQ ID NO:16	SEQ ID NO:17	SEQ ID NO:18	SEQ ID NO:19
4	SEQ ID NO:14	SEQ ID NO:16	SEQ ID NO:17	SEQ ID NO:18	SEQ ID NO:19

After the termination of the synthesis reaction, SDS gel electrophoresis was performed in the same manner as in Example 1 to determine the expression level of the obtained proteins.

Results thereof are shown in Fig. 1B to Fig. 1D. Fig. 1B shows an SDS gel electrophoregram of Example 2, Fig. 1C shows an SDS gel electrophoregram of Example 3, and Fig. 1D shows an SDS gel electrophoregram of Example 4. In Figs. 1B to 1D, the first lane is a lane of a protein containing a fraction of interest in purification, and M is a marker lane, respectively. In Fig. 1B, a band is observed at a position corresponding to KIAA0849 protein (454-554). According to this result, it is found that KIAA0849 protein (454-554) was expressed in Example 2. Further, according to Fig. 1C, it was found that KIAA0849 protein (454-559) was expressed in Example 3 in the same way as Fig. 1B. Furthermore, according to Fig. 1D, it was found that KIAA0849 protein (464-559) was expressed in Example 4.

[Comparative Examples 1 to 3]

Among constructs produced in the above manner, expression vectors were constructed, using a similar way as described in the above Example 1, regarding polypeptide a (comparative example 1) having an amino acid sequence of 474th to 539th amino acid residues of KIAA0849 protein, polypeptide b (comparative

example 2) having an amino acid sequence of 454th to 539th amino acid residues, and polypeptide c (comparative example 3) having an amino acid sequence of 454th to 549th amino acid residues. The obtained linear double stranded DNA fragments were used as template DNAs for protein synthesis. At this time, instead of primers used for the first PCR in Example 1, primers of amino acid sequence properly designed for these comparative examples were used.

Then, the expression levels of the obtained samples were determined by SDS gel electrophoresis. Fig. 2 shows SDS gel electrophoregrams in comparative examples. Fig. 2A shows an SDS gel electrophoregram of comparative example 1, Fig. 2B shows an SDS gel electrophoregram of comparative example 2, and Fig. 2C shows an SDS gel electrophoregram of comparative example 3. Here, the first lane is a lane of the entire products, the second lane is a lane of a supernatant, and M is a marker lane, respectively.

In Fig. 2A, there appeared no band at a position of MW=11.1 kDa, a molecular weight estimated based on the amino acid sequence of polypeptide a. Therefore, according to Fig. 2A, it was found that a protein of interest was not expressed in comparative example 1.

Further, in Fig. 2B, there appeared no band at a position of 13.1 kDa, which is a molecular weight estimated based on the amino acid sequence of polypeptide b. According to Fig. 2B, it was therefore found that a protein of interest was not expressed in comparative example 2.

Next, in Fig. 2C, a band appeared at an upper position from the position corresponding to 14.2 kDa, which is a molecular weight estimated based on the amino acid sequence of polypeptide c. According to Fig. 2C, it was thus found that a protein of interest was not obtained on a good expression level.

[Example 5]

With respect to respective proteins of interest in the above Examples 1 to 4 (proteins represented by SEQ ID NOS:1, 3, 5 and 7, respectively) were evaluated in terms of structural stability.

(1) Purification of ^{15}N labeled domain

The proteins of interest synthesized in the above Examples 1 to 4 were purified.

To purify ^{15}N labeled domain protein, the affinity of histidine tag and nickel was utilized. The operation was conducted at 4°C. First, after the termination of synthesis reaction, 3 ml of the reaction solution was diluted with 4.2 ml of washing buffer solution [50 mM sodium phosphate (pH 8.0)/300 mM sodium chloride/10 mM imidazole], collected and centrifuged at 1960 g for 5 minutes to remove precipitates. Next, the obtained supernatant was passed through 0.8 ml of Ni-NTA resin (QIAGEN) for adsorption, and passed through 9.6 ml of washing buffer solution to thereby remove contaminants. Finally, the resultant product was passed through 4 ml of elution buffer solution [50 mM sodium phosphate (pH 8.0)/300 mM sodium chloride/500 mM imidazole], and thereby the sample was liberated from the resin. According to the above procedures, 0.88 mg of purified sample was obtained.

(2) Sample preparation for structural stability evaluation

To make the purified sample a solvent suitable for NMR measurement, substitution by 20 mM sodium phosphate (pH 6.0)/100 mM sodium chloride solution was conducted. Thereafter, the sample was concentrated to 0.25 ml (sample concentration: 0.28 mM). For the above operations, an ultrafilter (VIVASPIN 2; SARTORIUS) was used. Finally, 0.03 ml of heavy water was added, thereby obtaining a sample for structural stability evaluation.

(3) Structural stability evaluation by NMR measurement

As a sample tube for NMR measurement, a symmetrical microtube (for 5 mm probe) manufactured by Shigemi, Inc. was used. The NMR measurement was conducted by a 600 MHz-NMR instrument (Avance 600 manufactured by Bruker) at 25°C. For the evaluation, one-dimensional spectrum of ^1H (hereinafter abbreviated as 1D spectrum), and ^1H - ^{15}N two-dimensional HSQC spectrum (hereinafter abbreviated as ^{15}N -HSQC spectrum) were used, and the conditions therefor were shown in the table 6 below. The results of the NMR measurement are shown in the figures 3 to 6.

[Table 6] NMR measurement conditions for structural stability evaluation

Spectrum	Accumulated times	Center frequency	Spectrum width	Data point number
1D	128	^1H : 2822 Hz	^1H : 8013 Hz	^1H : 8192
^{15}N HSQC	16	^1H : 2822 Hz ^{15}N : 7085 Hz	^1H : 8013 Hz ^{15}N : 2190 Hz	^1H : 2048 ^{15}N : 128

Figs. 3 to 6 show one-dimensional nuclear magnetic resonance spectra and ^1H - ^{15}N HSQC spectra of the proteins represented by SEQ ID NOS:1, 3, 5 and 7, respectively. In Figs. 3 to 6, figure A shows a one-dimensional nuclear magnetic resonance spectrum, and figure B shows a ^1H - ^{15}N HSQC spectrum.

In Figs. 3A to 6A, signals shifted to higher magnetic field were recognized at a higher magnetic field side (around 0.7 ppm to -0.5 ppm) in the methyl region of one-dimensional nuclear magnetic resonance spectra. In Figs. 3B to 6B, signals of removed amide proton were recognized at a range of 7 ppm to 9 ppm in ^{15}N HSQC spectra.

Since the appearance of these signals is characteristic to a protein forming a stable three-dimensional structure, it was determined that the proteins obtained in the above examples 1 to 4 formed a stable three-dimensional structure.

In the examples 1 to 4, as mentioned above, amino acid sequences of constituent element (domain) having structure and function of a protein were predicted from full-length KIAA0849 protein by a computer, and all constructs of various kinds were produced on the basis of the predicted region for protein expression. The expression statuses of the actually obtained proteins were confirmed by SDS gel electrophoresis. Then, whether or not they have a stable three-dimensional structure was evaluated by NMR measurement, and all the proteins were confirmed to have excellent structural stability.

Therefore, according to the examples, it has been confirmed that an amino acid sequence of CAP-Gly-like domain having actually stable three-dimensional structure (folding) was correctly determined.

Moreover, use of such domain-forming protein having a small molecular weight enables highly accurate three-dimensional structure analysis with relative ease.

Then, using KIAA0849 protein (464-554) of Example 1 that is a CAP-Gly-like domain protein having an amino acid sequence represented by SEQ ID NO:1, the three-dimensional structure analysis was conducted as follows.

[Example 6]

Structure determination of CAP-Gly-like domain protein contained in cancer suppressor gene (KIAA0849) product involved in human Turban tumor syndrome

(1) Purification of $^{13}\text{C}^{15}\text{N}$ -labeled domain by NMR measurement

A protein represented by SEQ ID NO:20 having all the carbon and nitrogen nuclears substituted by stable isotope carbon 13 and nitrogen 15 was produced by the above cell-free protein expression system. The protein represented by SEQ ID NO:20 is a protein derived from the protein represented by SEQ ID NO:1 by addition of amino acid residues represented by GSSGSSG and SGPSSG to the N- and

C-terminals, and these additional sequences do not affect three-dimensional structure of the protein. Therefore, analysis of three-dimensional structure of the protein represented by SEQ ID NO:20 provides three-dimensional structure of the protein of the present invention represented by SEQ ID NO:1.

The obtained high purity preparation was concentrated to a standard concentration of 0.8 mM using a protein concentrator with an ultrafilter membrane for a high-speed centrifuge, and thereafter diluted 10 times with preparation buffer solution for NMR analysis. These concentration and dilution processes were repeated three times, and the buffer solution for purifying preparation was completely substituted by the preparation buffer solution for NMR analysis. The used preparation buffer solution for NMR analysis was composed of 20 mM sodium phosphate, 100 mM sodium chloride, 1 mM dithiothreitol, and pH thereof was 6.0. After complete substitution by the preparation buffer solution for NMR analysis, the final concentration of the preparation was about 0.8 mM. The obtained preparation was injected to a test tube for NMR measurement with an outer diameter of 5 mm, and then preserved at 25°C for 2 hours for stabilization.

(2) NMR measurement

For NMR experiment, DRX600 and DRX800 manufactured by Swiss Bruker were used. All the measurements were conducted at 25°C. In NMR experiment having a purpose of main chain signal attribution, a two dimensional spectrum of ^1H - ^{15}N HSQC, and three dimensional spectrum of HNCO, HN(CO)CA, HNCA, CBCA(CO)NH, HNCACB, HBHA(CBCACO)NH, H(CCCO)NH, C(CCCO)NH, and ^{15}N -edited NOESY were measured. In addition, in NMR experiment having a purpose of side chain signal attribution, two dimensional spectrum of ^1H - ^{13}C HSQC and three dimensional spectra: HCCH-COSY, HCCH-TOCSY, ^{13}C -edited NOESY for aliphatic side chain; and HCCH-COSY, ^{13}C -edited NOESY, HNHB, and HN(CO)HB for aromatic side chain were measured.

(3) Analysis of measurement data

The measurement data were subjected to Fourier transform using work stations Octane2 and Origin3800 manufactured by Silicon Graphics, Inc. in America, and respective two dimensional and three dimensional spectra were obtained. Based on the obtained spectrum data, $C\alpha$ and $C\beta$ of carbon nuclear at α and β positions as main chain signals of amino acid residue; C' of carbon nuclear of carbonyl group; $H\alpha$ and $H\beta$ of hydrogen nuclear at α and β positions; HN of hydrogen nuclear of amino group; and N of nitrogen nuclear of amide group were attributed in a chain reaction manner. In this method, a signal having a chemical shift value identical to that of $C\alpha$ signal of an adjacent residue on $HN(CO)Ca$ was searched for on $HNCA$, and the linkage with $C\alpha$ signal of a residue adjacent to itself was clarified. This process was repeated, and thereby all $C\alpha$ signals were attributable in a chain reaction manner, except that signals were not observed due to proline residue or from any cause. By conducting the same procedure, $C\beta$ signals by $C(CCCO)NH$, $CBCA(CO)NH$, and $HNCACB$, $H\alpha$ and $H\beta$ signals by $H(CCCO)NH$, $HBHA(CBCACO)NH$ and ^{15}N -edited NOESY, and C' signals by $HNCO$ were attributed, and thereby more precise attribution can be conducted. Further, using the obtained spectrum data measured for main chain attribution information and side chain attribution, attributions of carbon, nitrogen, and hydrogen nuclei at γ , δ , ϵ , ζ , and η positions were conducted. According to the above procedures, attribution data of signals regarding to almost all the amino acid residues was obtained. Moreover, distance limitation data was obtained from 1142 signals on ^{15}N -edited NOESY, 2158 signals on ^{13}C -edited NOESY for aliphatic side chain, and 209 signals on ^{13}C -edited NOESY for aromatic side chain. From the chemical shift values, obtained during main chain attribution, of $C\alpha$, $C\beta$, C' , $H\alpha$, $H\beta$, HN , and N signals, ϕ and ψ angle data of 42 residues were obtained using a software TALOS, which predicted with high precision ϕ and ψ angles, dihedral angles of polypeptide

main chain. Furthermore, according to signal patterns of HNHB and HN(CO)HB, data of χ angle, which was a dihedral angle of side chain in 35 residues was obtained. Based on these signal attribution data, distance limitation data, ϕ , ψ , and χ angle limit data, a domain structure was calculated using CNS, a software for protein three-dimensional structure calculation. Based on the obtained three-dimensional structure, NOE group which did not meet provided distance limit was compared and reviewed, and then optimized. This process was repeated, and finally calculation was conducted using all the angle limits and 2667 distance limits, thereby obtaining 20 energetically stable three-dimensional structures. In these structures, the convergence of amino acid residues forming two dimensional structure was 0.29 Å relative to atom group of main chains and 0.76 Å relative to all atom group including side chains except hydrogen atom.

(4) Structure coordinates

Structure coordinates are shown in the following three-dimensional structure coordinate tables 1 to 20.

The following three-dimensional structure coordinate data is described in accordance with the format of protein data bank (PDB). ATOM of the first column indicates that this column is a column for atomic coordinate; the second column indicates the order of atoms; the third column indicates the distinction of atom in amino acid residues, etc.; the fourth column indicates amino acid residues, etc.; the fifth column indicates the number of amino acid corresponding SEQ ID NO:20; the sixth, seventh, and eighth columns indicate coordinates of atom (unit: Å, in the order of a, b and c axes); the ninth column indicates occupancy of that atom (anytime this figure is 1.00 in the invention); the tenth column indicates temperature factor of that atom. The final line indicates the final line of this table.

Three-Dimensional Structure Coordinate Table 1

ATOM 1	N	GLY A	1120.138	11.140	-2.903	1.00	0.00	N
ATOM 2	CA	GLY A	1120.658	10.305	-1.785	1.00	0.00	C
ATOM 3	C	GLY A	1120.202	8.862	-1.879	1.00	0.00	C
ATOM 4	O	GLY A	1119.025	8.590	-2.119	1.00	0.00	O
ATOM 5 1H		GLY A	1120.758	11.050	-3.733	1.00	0.00	H
ATOM 6 2H		GLY A	1120.103	12.139	-2.617	1.00	0.00	H
ATOM 7 3H		GLY A	1119.180	10.832	-3.164	1.00	0.00	H
ATOM 8 1HA		GLY A	1121.737	10.331	-1.802	1.00	0.00	H
ATOM 9 2HA		GLY A	1120.312	10.720	-0.850	1.00	0.00	H
ATOM10	N	SER A	2121.135	7.935	-1.688	1.00	0.00	N
ATOM11	CA	SER A	2120.822	6.512	-1.752	1.00	0.00	C
ATOM12	C	SER A	2119.883	6.109	-0.621	1.00	0.00	C
ATOM13	O	SER A	2119.959	6.647	0.484	1.00	0.00	O
ATOM14	CB	SER A	2122.107	5.683	-1.684	1.00	0.00	C
ATOM15	OG	SER A	2122.628	5.441	-2.980	1.00	0.00	O
ATOM16	H	SER A	2122.055	8.214	-1.500	1.00	0.00	H
ATOM17	HA	SER A	2120.333	6.322	-2.695	1.00	0.00	H
ATOM18 1HB		SER A	2122.846	6.217	-1.107	1.00	0.00	H
ATOM19 2HB		SER A	2121.896	4.735	-1.211	1.00	0.00	H
ATOM20	HG	SER A	2122.628	6.259	-3.482	1.00	0.00	H
ATOM21	N	SER A	3118.997	5.160	-0.902	1.00	0.00	N
ATOM22	CA	SER A	3118.042	4.685	0.092	1.00	0.00	C
ATOM23	C	SER A	3118.645	3.564	0.933	1.00	0.00	C
ATOM24	O	SER A	3118.658	2.404	0.523	1.00	0.00	O
ATOM25	CB	SER A	3116.764	4.194	-0.591	1.00	0.00	C
ATOM26	OG	SER A	3117.063	3.463	-1.768	1.00	0.00	O
ATOM27	H	SER A	3118.986	4.769	-1.801	1.00	0.00	H

ATOM28	HA	SER A	3117.798	5.513	0.739	1.00	0.00	H
ATOM29	1HB	SER A	3116.220	3.553	0.087	1.00	0.00	H
ATOM30	2HB	SER A	3116.152	5.044	-0.854	1.00	0.00	H
ATOM31	HG	SER A	3117.138	4.068	-2.510	1.00	0.00	H
ATOM32	N	GLY A	4119.143	3.920	2.114	1.00	0.00	N
ATOM33	CA	GLY A	4119.741	2.933	2.993	1.00	0.00	C
ATOM34	C	GLY A	4119.727	3.367	4.446	1.00	0.00	C
ATOM35	O	GLY A	4118.924	4.213	4.840	1.00	0.00	O
ATOM36	H	GLY A	4119.105	4.860	2.388	1.00	0.00	H
ATOM37	1HA	GLY A	4119.195	2.005	2.901	1.00	0.00	H
ATOM38	2HA	GLY A	4120.764	2.767	2.689	1.00	0.00	H
ATOM39	N	SER A	5120.616	2.785	5.244	1.00	0.00	N
ATOM40	CA	SER A	5120.703	3.116	6.662	1.00	0.00	C
ATOM41	C	SER A	5122.050	3.754	6.990	1.00	0.00	C
ATOM42	O	SER A	5122.125	4.697	7.777	1.00	0.00	O
ATOM43	CB	SER A	5120.499	1.861	7.513	1.00	0.00	C
ATOM44	OG	SER A	5119.829	2.169	8.723	1.00	0.00	O
ATOM45	H	SER A	5121.230	2.118	4.870	1.00	0.00	H
ATOM46	HA	SER A	5119.919	3.824	6.886	1.00	0.00	H
ATOM47	1HB	SER A	5119.907	1.147	6.961	1.00	0.00	H
ATOM48	2HB	SER A	5121.461	1.428	7.747	1.00	0.00	H
ATOM49	HG	SER A	5120.475	2.376	9.402	1.00	0.00	H
ATOM50	N	SER A	6123.109	3.233	6.381	1.00	0.00	N
ATOM51	CA	SER A	6124.454	3.751	6.607	1.00	0.00	C
ATOM52	C	SER A	6124.821	4.789	5.552	1.00	0.00	C
ATOM53	O	SER A	6124.732	4.528	4.353	1.00	0.00	O
ATOM54	CB	SER A	6125.472	2.611	6.594	1.00	0.00	C

ATOM55	OG	SER A	6126.514	2.846	7.526	1.00	0.00	O
ATOM56	H	SER A	6122.985	2.481	5.763	1.00	0.00	H
ATOM57	HA	SER A	6124.467	4.223	7.579	1.00	0.00	H
ATOM58	1HB	SER A	6124.978	1.686	6.853	1.00	0.00	H
ATOM59	2HB	SER A	6125.901	2.525	5.606	1.00	0.00	H
ATOM60	HG	SER A	6126.892	2.007	7.803	1.00	0.00	H
ATOM61	N	GLY A	7125.235	5.968	6.007	1.00	0.00	N
ATOM62	CA	GLY A	7125.610	7.027	5.088	1.00	0.00	C
ATOM63	C	GLY A	7127.112	7.214	5.001	1.00	0.00	C
ATOM64	O	GLY A	7127.869	6.243	5.033	1.00	0.00	O
ATOM65	H	GLY A	7125.286	6.119	6.974	1.00	0.00	H
ATOM66	1HA	GLY A	7125.230	6.788	4.107	1.00	0.00	H
ATOM67	2HA	GLY A	7125.161	7.951	5.421	1.00	0.00	H
ATOM68	N	LEU A	8127.545	8.467	4.889	1.00	0.00	N
ATOM69	CA	LEU A	8128.966	8.780	4.795	1.00	0.00	C
ATOM70	C	LEU A	8129.559	8.221	3.505	1.00	0.00	C
ATOM71	O	LEU A	8130.682	7.717	3.493	1.00	0.00	O
ATOM72	CB	LEU A	8129.719	8.220	6.004	1.00	0.00	C
ATOM73	CG	LEU A	8129.030	8.435	7.352	1.00	0.00	C
ATOM74	CD1	LEU A	8129.288	7.256	8.279	1.00	0.00	C
ATOM75	CD2	LEU A	8129.506	9.731	7.991	1.00	0.00	C
ATOM76	H	LEU A	8126.893	9.197	4.867	1.00	0.00	H
ATOM77	HA	LEU A	8129.068	9.855	4.786	1.00	0.00	H
ATOM78	1HB	LEU A	8129.853	7.157	5.856	1.00	0.00	H
ATOM79	2HB	LEU A	8130.692	8.685	6.043	1.00	0.00	H
ATOM80	HG	LEU A	8127.964	8.510	7.196	1.00	0.00	H
ATOM81	1HD1	LEU A	8129.004	7.522	9.286	1.00	0.00	H

ATOM82	2HD1	LEU A	8130.337	7.002	8.254	1.00	0.00	H	
ATOM83	3HD1	LEU A	8128.704	6.408	7.952	1.00	0.00	H	
ATOM84	1HD2	LEU A	8130.301	9.516	8.691	1.00	0.00	H	
ATOM85	2HD2	LEU A	8128.684	10.199	8.512	1.00	0.00	H	
ATOM86	3HD2	LEU A	8129.872	10.397	7.224	1.00	0.00	H	
ATOM87	N	ALA A	9128.795	8.314	2.423	1.00	0.00	N	
ATOM88	CA	ALA A	9129.241	7.818	1.128	1.00	0.00	C	
ATOM89	C	ALA A	9129.592	8.968	0.192	1.00	0.00	C	
ATOM90	O	ALA A	9128.799	9.890	0.000	1.00	0.00	O	
ATOM91	CB	ALA A	9128.171	6.934	0.504	1.00	0.00	C	
ATOM92	H	ALA A	9127.908	8.725	2.497	1.00	0.00	H	
ATOM93	HA	ALA A	9130.123	7.216	1.289	1.00	0.00	H	
ATOM94	1HB	ALA A	9127.782	6.258	1.251	1.00	0.00	H	
ATOM95	2HB	ALA A	9128.602	6.365	-0.308	1.00	0.00	H	
ATOM96	3HB	ALA A	9127.369	7.552	0.126	1.00	0.00	H	
ATOM97	N	MET A	10130.785	8.908	-0.389	1.00	0.00	N	
ATOM98	CA	MET A	10131.242	9.945	-1.306	1.00	0.00	C	
ATOM99	C	MET A	10131.920	9.331	-2.528	1.00	0.00	C	
ATOM	100	O	MET A	10133.135	9.442	-2.697	1.00	0.00	O
ATOM	101	CB	MET A	10132.206	10.896	-0.594	1.00	0.00	C
ATOM	102	CG	MET A	10131.568	11.663	0.553	1.00	0.00	C
ATOM	103	SD	MET A	10132.377	13.245	0.863	1.00	0.00	S
ATOM	104	CE	MET A	10132.247	14.013	-0.751	1.00	0.00	C
ATOM	105	H	MET A	10131.373	8.148	-0.197	1.00	0.00	H
ATOM	106	HA	MET A	10130.376	10.503	-1.632	1.00	0.00	H
ATOM	107	1HB	MET A	10133.031	10.321	-0.200	1.00	0.00	H
ATOM	108	2HB	MET A	10132.585	11.609	-1.310	1.00	0.00	H

ATOM	109	1HG	MET A	10130.531	11.846	0.314	1.00	0.00	H
ATOM	110	2HG	MET A	10131.629	11.062	1.448	1.00	0.00	H
ATOM	111	1HE	MET A	10133.228	14.073	-1.200	1.00	0.00	H
ATOM	112	2HE	MET A	10131.839	15.007	-0.644	1.00	0.00	H
ATOM	113	3HE	MET A	10131.598	13.422	-1.380	1.00	0.00	H
ATOM	114	N	PRO A	11131.139	8.673	-3.402	1.00	0.00	N
ATOM	115	CA	PRO A	11131.671	8.043	-4.613	1.00	0.00	C
ATOM	116	C	PRO A	11132.451	9.024	-5.486	1.00	0.00	C
ATOM	117	O	PRO A	11133.544	8.709	-5.957	1.00	0.00	O
ATOM	118	CB	PRO A	11130.423	7.547	-5.350	1.00	0.00	C
ATOM	119	CG	PRO A	11129.365	7.447	-4.304	1.00	0.00	C
ATOM	120	CD	PRO A	11129.682	8.497	-3.277	1.00	0.00	C
ATOM	121	HA	PRO A	11132.304	7.202	-4.372	1.00	0.00	H
ATOM	122	1HB	PRO A	11130.152	8.253	-6.120	1.00	0.00	H
ATOM	123	2HB	PRO A	11130.626	6.585	-5.795	1.00	0.00	H
ATOM	124	1HG	PRO A	11128.400	7.638	-4.744	1.00	0.00	H
ATOM	125	2HG	PRO A	11129.387	6.466	-3.855	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.162	9.416	-3.504	1.00	0.00	H
ATOM	127	2HD	PRO A	11129.421	8.149	-2.288	1.00	0.00	H
ATOM	128	N	PRO A	12131.907	10.235	-5.713	1.00	0.00	N
ATOM	129	CA	PRO A	12132.573	11.253	-6.531	1.00	0.00	C
ATOM	130	C	PRO A	12133.937	11.637	-5.966	1.00	0.00	C
ATOM	131	O	PRO A	12134.781	12.188	-6.673	1.00	0.00	O
ATOM	132	CB	PRO A	12131.618	12.453	-6.477	1.00	0.00	C
ATOM	133	CG	PRO A	12130.301	11.882	-6.078	1.00	0.00	C
ATOM	134	CD	PRO A	12130.613	10.712	-5.191	1.00	0.00	C
ATOM	135	HA	PRO A	12132.688	10.926	-7.553	1.00	0.00	H

ATOM	136	1HB	PRO A	12131.975	13.167	-5.750	1.00	0.00	H
ATOM	137	2HB	PRO A	12131.566	12.918	-7.451	1.00	0.00	H
ATOM	138	1HG	PRO A	12129.729	12.621	-5.537	1.00	0.00	H
ATOM	139	2HG	PRO A	12129.761	11.555	-6.954	1.00	0.00	H
ATOM	140	1HD	PRO A	12130.705	11.030	-4.163	1.00	0.00	H
ATOM	141	2HD	PRO A	12129.854	9.952	-5.287	1.00	0.00	H
ATOM	142	N	GLY A	13134.145	11.341	-4.687	1.00	0.00	N
ATOM	143	CA	GLY A	13135.408	11.661	-4.048	1.00	0.00	C
ATOM	144	C	GLY A	13136.522	10.720	-4.461	1.00	0.00	C
ATOM	145	O	GLY A	13137.189	10.944	-5.472	1.00	0.00	O
ATOM	146	H	GLY A	13133.435	10.900	-4.171	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.687	12.670	-4.313	1.00	0.00	H
ATOM	148	2HA	GLY A	13135.282	11.603	-2.977	1.00	0.00	H
ATOM	149	N	ASN A	14136.723	9.665	-3.678	1.00	0.00	N
ATOM	150	CA	ASN A	14137.765	8.687	-3.969	1.00	0.00	C
ATOM	151	C	ASN A	14137.162	7.396	-4.514	1.00	0.00	C
ATOM	152	O	ASN A	14137.556	6.914	-5.575	1.00	0.00	O
ATOM	153	CB	ASN A	14138.580	8.389	-2.709	1.00	0.00	C
ATOM	154	CG	ASN A	14139.257	9.626	-2.152	1.00	0.00	C
ATOM	155	OD1	ASN A	14140.304	10.048	-2.643	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.660	10.215	-1.122	1.00	0.00	N
ATOM	157	H	ASN A	14136.159	9.542	-2.887	1.00	0.00	H
ATOM	158	HA	ASN A	14138.418	9.109	-4.718	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.925	7.988	-1.950	1.00	0.00	H
ATOM	160	2HB	ASN A	14139.341	7.660	-2.944	1.00	0.00	H
ATOM	161	1HD2	ASN A	14137.829	9.823	-0.784	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.076	11.018	-0.744	1.00	0.00	H

ATOM	163	N	SER A	15136.202	6.842	-3.779	1.00	0.00 N
ATOM	164	CA	SER A	15135.544	5.607	-4.189	1.00	0.00 C
ATOM	165	C	SER A	15134.436	5.233	-3.208	1.00	0.00 C
ATOM	166	O	SER A	15133.344	4.832	-3.612	1.00	0.00 O
ATOM	167	CB	SER A	15136.561	4.468	-4.286	1.00	0.00 C
ATOM	168	OG	SER A	15137.099	4.375	-5.592	1.00	0.00 O
ATOM	169	H	SER A	15135.930	7.274	-2.943	1.00	0.00 H
ATOM	170	HA	SER A	15135.106	5.770	-5.163	1.00	0.00 H
ATOM	171	1HB	SER A	15137.366	4.649	-3.590	1.00	0.00 H
ATOM	172	2HB	SER A	15136.076	3.535	-4.041	1.00	0.00 H
ATOM	173	HG	SER A	15136.766	3.582	-6.020	1.00	0.00 H
ATOM	174	N	HIS A	16134.726	5.365	-1.919	1.00	0.00 N
ATOM	175	CA	HIS A	16133.756	5.041	-0.879	1.00	0.00 C
ATOM	176	C	HIS A	16134.196	5.603	0.468	1.00	0.00 C
ATOM	177	O	HIS A	16133.479	6.389	1.089	1.00	0.00 O
ATOM	178	CB	HIS A	16133.574	3.525	-0.778	1.00	0.00 C
ATOM	179	CG	HIS A	16132.466	2.998	-1.636	1.00	0.00 C
ATOM	180	ND1	HIS A	16131.131	3.188	-1.343	1.00	0.00 N
ATOM	181	CD2	HIS A	16132.499	2.283	-2.786	1.00	0.00 C
ATOM	182	CE1	HIS A	16130.392	2.611	-2.275	1.00	0.00 C
ATOM	183	NE2	HIS A	16131.198	2.057	-3.162	1.00	0.00 N
ATOM	184	H	HIS A	16135.614	5.688	-1.660	1.00	0.00 H
ATOM	185	HA	HIS A	16132.814	5.491	-1.153	1.00	0.00 H
ATOM	186	1HB	HIS A	16134.489	3.038	-1.081	1.00	0.00 H
ATOM	187	2HB	HIS A	16133.355	3.264	0.247	1.00	0.00 H
ATOM	188	HD1	HIS A	16130.779	3.672	-0.567	1.00	0.00 H
ATOM	189	HD2	HIS A	16133.384	1.952	-3.310	1.00	0.00 H

ATOM	190	HE1 HIS A	16129.313	2.598	-2.306	1.00	0.00	H
ATOM	191	HE2 HIS A	16130.911	1.498	-3.913	1.00	0.00	H
ATOM	192	N GLY A	17135.381	5.198	0.914	1.00	0.00	N
ATOM	193	CA GLY A	17135.896	5.673	2.185	1.00	0.00	C
ATOM	194	C GLY A	17137.255	5.085	2.515	1.00	0.00	C
ATOM	195	O GLY A	17137.399	4.345	3.488	1.00	0.00	O
ATOM	196	H GLY A	17135.909	4.572	0.377	1.00	0.00	H
ATOM	197	1HA GLY A	17135.981	6.748	2.148	1.00	0.00	H
ATOM	198	2HA GLY A	17135.201	5.403	2.967	1.00	0.00	H
ATOM	199	N LEU A	18138.253	5.417	1.703	1.00	0.00	N
ATOM	200	CA LEU A	18139.607	4.918	1.913	1.00	0.00	C
ATOM	201	C LEU A	18140.527	6.030	2.407	1.00	0.00	C
ATOM	202	O LEU A	18140.851	6.956	1.663	1.00	0.00	O
ATOM	203	CB LEU A	18140.160	4.320	0.618	1.00	0.00	C
ATOM	204	CG LEU A	18139.326	3.186	0.021	1.00	0.00	C
ATOM	205	CD1 LEU A	18139.476	3.153	-1.493	1.00	0.00	C
ATOM	206	CD2 LEU A	18139.730	1.851	0.628	1.00	0.00	C
ATOM	207	H LEU A	18138.075	6.012	0.944	1.00	0.00	H
ATOM	208	HA LEU A	18139.562	4.144	2.665	1.00	0.00	H
ATOM	209	1HB LEU A	18140.234	5.111	-0.115	1.00	0.00	H
ATOM	210	2HB LEU A	18141.151	3.942	0.815	1.00	0.00	H
ATOM	211	HG LEU A	18138.283	3.356	0.248	1.00	0.00	H
ATOM	212	1HD1 LEU A	18139.372	2.136	-1.842	1.00	0.00	H
ATOM	213	2HD1 LEU A	18140.451	3.528	-1.766	1.00	0.00	H
ATOM	214	3HD1 LEU A	18138.713	3.768	-1.944	1.00	0.00	H
ATOM	215	1HD2 LEU A	18140.757	1.903	0.959	1.00	0.00	H
ATOM	216	2HD2 LEU A	18139.629	1.073	-0.113	1.00	0.00	H

ATOM	217	3HD2	LEU A	18139.092	1.630	1.471	1.00	0.00	H
ATOM	218	N	GLU A	19140.945	5.931	3.664	1.00	0.00	N
ATOM	219	CA	GLU A	19141.830	6.927	4.257	1.00	0.00	C
ATOM	220	C	GLU A	19142.859	6.267	5.168	1.00	0.00	C
ATOM	221	O	GLU A	19142.811	5.059	5.403	1.00	0.00	O
ATOM	222	CB	GLU A	19141.017	7.954	5.047	1.00	0.00	C
ATOM	223	CG	GLU A	19140.018	7.331	6.010	1.00	0.00	C
ATOM	224	CD	GLU A	19138.580	7.626	5.632	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.293	8.777	5.240	1.00	0.00	O
ATOM	226	OE2	GLU A	19137.741	6.705	5.727	1.00	0.00	O
ATOM	227	H	GLU A	19140.653	5.168	4.207	1.00	0.00	H
ATOM	228	HA	GLU A	19142.347	7.431	3.454	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.696	8.573	5.617	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.474	8.579	4.353	1.00	0.00	H
ATOM	231	1HG	GLU A	19140.161	6.261	6.013	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.202	7.721	7.000	1.00	0.00	H
ATOM	233	N	VAL A	20143.791	7.066	5.679	1.00	0.00	N
ATOM	234	CA	VAL A	20144.831	6.559	6.564	1.00	0.00	C
ATOM	235	C	VAL A	20144.232	5.988	7.845	1.00	0.00	C
ATOM	236	O	VAL A	20143.373	6.610	8.471	1.00	0.00	O
ATOM	237	CB	VAL A	20145.845	7.660	6.930	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.003	7.079	7.729	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.352	8.359	5.677	1.00	0.00	C
ATOM	240	H	VAL A	20143.776	8.020	5.455	1.00	0.00	H
ATOM	241	HA	VAL A	20145.358	5.773	6.043	1.00	0.00	H
ATOM	242	HB	VAL A	20145.345	8.392	7.547	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.813	7.792	7.760	1.00	0.00	H

ATOM	244	2HG1	VAL A	20147.342	6.167	7.260	1.00	0.00	H
ATOM	245	3HG1	VAL A	20146.674	6.864	8.735	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.407	9.423	5.856	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.676	8.167	4.858	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.335	7.985	5.429	1.00	0.00	H
ATOM	249	N	GLY A	21144.691	4.802	8.230	1.00	0.00	N
ATOM	250	CA	GLY A	21144.189	4.168	9.435	1.00	0.00	C
ATOM	251	C	GLY A	21143.139	3.114	9.141	1.00	0.00	C
ATOM	252	O	GLY A	21142.996	2.145	9.887	1.00	0.00	O
ATOM	253	H	GLY A	21145.376	4.354	7.691	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.013	3.703	9.954	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.756	4.923	10.072	1.00	0.00	H
ATOM	256	N	SER A	22142.400	3.304	8.051	1.00	0.00	N
ATOM	257	CA	SER A	22141.358	2.363	7.661	1.00	0.00	C
ATOM	258	C	SER A	22141.934	1.233	6.815	1.00	0.00	C
ATOM	259	O	SER A	22142.916	1.420	6.095	1.00	0.00	O
ATOM	260	CB	SER A	22140.255	3.084	6.886	1.00	0.00	C
ATOM	261	OG	SER A	22139.291	3.639	7.764	1.00	0.00	O
ATOM	262	H	SER A	22142.561	4.097	7.498	1.00	0.00	H
ATOM	263	HA	SER A	22140.936	1.943	8.563	1.00	0.00	H
ATOM	264	1HB	SER A	22140.690	3.882	6.302	1.00	0.00	H
ATOM	265	2HB	SER A	22139.763	2.384	6.227	1.00	0.00	H
ATOM	266	HG	SER A	22139.736	4.075	8.494	1.00	0.00	H
ATOM	267	N	LEU A	23141.319	0.059	6.906	1.00	0.00	N
ATOM	268	CA	LEU A	23141.771	-1.103	6.149	1.00	0.00	C
ATOM	269	C	LEU A	23141.219	-1.074	4.727	1.00	0.00	C
ATOM	270	O	LEU A	23140.087	-0.646	4.499	1.00	0.00	O

ATOM	271	CB	LEU A	23141.341	-2.394	6.849	1.00	0.00	C
ATOM	272	CG	LEU A	23142.012	-2.651	8.199	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.094	-3.458	9.106	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.339	-3.369	8.005	1.00	0.00	C
ATOM	275	H	LEU A	23140.542	-0.029	7.497	1.00	0.00	H
ATOM	276	HA	LEU A	23142.849	-1.070	6.104	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.273	-2.356	7.002	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.566	-3.224	6.197	1.00	0.00	H
ATOM	279	HG	LEU A	23142.211	-1.706	8.682	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.445	-4.074	8.503	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.499	-2.784	9.705	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.689	-4.085	9.753	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.169	-4.436	7.969	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.997	-3.138	8.830	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.792	-3.046	7.080	1.00	0.00	H
ATOM	286	N	ALA A	24142.025	-1.531	3.776	1.00	0.00	N
ATOM	287	CA	ALA A	24141.617	-1.558	2.376	1.00	0.00	C
ATOM	288	C	ALA A	24142.162	-2.794	1.669	1.00	0.00	C
ATOM	289	O	ALA A	24143.002	-3.511	2.211	1.00	0.00	O
ATOM	290	CB	ALA A	24142.082	-0.294	1.668	1.00	0.00	C
ATOM	291	H	ALA A	24142.916	-1.859	4.019	1.00	0.00	H
ATOM	292	HA	ALA A	24140.538	-1.584	2.345	1.00	0.00	H
ATOM	293	1HB	ALA A	24143.093	-0.432	1.314	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.051	0.537	2.357	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.432	-0.091	0.830	1.00	0.00	H
ATOM	296	N	GLU A	25141.678	-3.036	0.456	1.00	0.00	N
ATOM	297	CA	GLU A	25142.117	-4.186	-0.326	1.00	0.00	C

ATOM	298	C	GLU A	25142.455	-3.774	-1.756	1.00	0.00 C
ATOM	299	O	GLU A	25141.823	-2.884	-2.323	1.00	0.00 O
ATOM	300	CB	GLU A	25141.032	-5.265	-0.338	1.00	0.00 C
ATOM	301	CG	GLU A	25141.479	-6.569	-0.978	1.00	0.00 C
ATOM	302	CD	GLU A	25140.325	-7.520	-1.231	1.00	0.00 C
ATOM	303	OE1	GLU A	25140.422	-8.335	-2.172	1.00	0.00 O
ATOM	304	OE2	GLU A	25139.324	-7.450	-0.486	1.00	0.00 O
ATOM	305	H	GLU A	25141.010	-2.427	0.076	1.00	0.00 H
ATOM	306	HA	GLU A	25143.004	-4.585	0.140	1.00	0.00 H
ATOM	307	1HB	GLU A	25140.736	-5.472	0.680	1.00	0.00 H
ATOM	308	2HB	GLU A	25140.178	-4.896	-0.885	1.00	0.00 H
ATOM	309	1HG	GLU A	25141.955	-6.348	-1.921	1.00	0.00 H
ATOM	310	2HG	GLU A	25142.188	-7.053	-0.323	1.00	0.00 H
ATOM	311	N	VAL A	26143.459	-4.429	-2.333	1.00	0.00 N
ATOM	312	CA	VAL A	26143.882	-4.131	-3.695	1.00	0.00 C
ATOM	313	C	VAL A	26143.519	-5.267	-4.644	1.00	0.00 C
ATOM	314	O	VAL A	26143.657	-6.442	-4.305	1.00	0.00 O
ATOM	315	CB	VAL A	26145.400	-3.881	-3.770	1.00	0.00 C
ATOM	316	CG1	VAL A	26145.791	-3.373	-5.149	1.00	0.00 C
ATOM	317	CG2	VAL A	26145.833	-2.901	-2.690	1.00	0.00 C
ATOM	318	H	VAL A	26143.925	-5.129	-1.829	1.00	0.00 H
ATOM	319	HA	VAL A	26143.374	-3.233	-4.014	1.00	0.00 H
ATOM	320	HB	VAL A	26145.908	-4.819	-3.600	1.00	0.00 H
ATOM	321	1HG1	VAL A	26145.889	-2.297	-5.123	1.00	0.00 H
ATOM	322	2HG1	VAL A	26145.030	-3.648	-5.864	1.00	0.00 H
ATOM	323	3HG1	VAL A	26146.734	-3.812	-5.440	1.00	0.00 H
ATOM	324	1HG2	VAL A	26145.367	-3.169	-1.753	1.00	0.00 H

ATOM	325	2HG2 VAL A	26145.533	-1.902	-2.968	1.00	0.00	H
ATOM	326	3HG2 VAL A	26146.907	-2.938	-2.582	1.00	0.00	H
ATOM	327	N LYS A	27143.052	-4.909	-5.837	1.00	0.00	N
ATOM	328	CA LYS A	27142.669	-5.900	-6.836	1.00	0.00	C
ATOM	329	C LYS A	27143.868	-6.308	-7.685	1.00	0.00	C
ATOM	330	O LYS A	27144.189	-5.657	-8.680	1.00	0.00	O
ATOM	331	CB LYS A	27141.557	-5.347	-7.731	1.00	0.00	C
ATOM	332	CG LYS A	27140.454	-6.352	-8.020	1.00	0.00	C
ATOM	333	CD LYS A	27139.652	-6.674	-6.770	1.00	0.00	C
ATOM	334	CE LYS A	27138.931	-5.445	-6.239	1.00	0.00	C
ATOM	335	NZ LYS A	27139.738	-4.727	-5.213	1.00	0.00	N
ATOM	336	H LYS A	27142.964	-3.957	-6.049	1.00	0.00	H
ATOM	337	HA LYS A	27142.299	-6.770	-6.315	1.00	0.00	H
ATOM	338	1HB LYS A	27141.115	-4.489	-7.248	1.00	0.00	H
ATOM	339	2HB LYS A	27141.988	-5.037	-8.672	1.00	0.00	H
ATOM	340	1HG LYS A	27139.790	-5.939	-8.765	1.00	0.00	H
ATOM	341	2HG LYS A	27140.898	-7.262	-8.397	1.00	0.00	H
ATOM	342	1HD LYS A	27138.922	-7.433	-7.007	1.00	0.00	H
ATOM	343	2HD LYS A	27140.324	-7.043	-6.008	1.00	0.00	H
ATOM	344	1HE LYS A	27138.735	-4.775	-7.063	1.00	0.00	H
ATOM	345	2HE LYS A	27137.996	-5.755	-5.797	1.00	0.00	H
ATOM	346	1HZ LYS A	27140.748	-4.947	-5.335	1.00	0.00	H
ATOM	347	2HZ LYS A	27139.443	-5.018	-4.260	1.00	0.00	H
ATOM	348	3HZ LYS A	27139.603	-3.701	-5.308	1.00	0.00	H
ATOM	349	N GLU A	28144.529	-7.390	-7.286	1.00	0.00	N
ATOM	350	CA GLU A	28145.694	-7.886	-8.010	1.00	0.00	C
ATOM	351	C GLU A	28145.709	-9.411	-8.036	1.00	0.00	C

ATOM	352	O	GLU A	28144.797	-10.059	-7.525	1.00	0.00	O
ATOM	353	CB	GLU A	28146.980	-7.360	-7.368	1.00	0.00	C
ATOM	354	CG	GLU A	28147.981	-6.812	-8.372	1.00	0.00	C
ATOM	355	CD	GLU A	28149.350	-6.580	-7.762	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.538	-5.534	-7.106	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.233	-7.446	-7.941	1.00	0.00	O
ATOM	358	H	GLU A	28144.225	-7.867	-6.485	1.00	0.00	H
ATOM	359	HA	GLU A	28145.633	-7.520	-9.024	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.727	-6.570	-6.677	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.453	-8.164	-6.824	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.080	-7.517	-9.183	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.609	-5.873	-8.755	1.00	0.00	H
ATOM	364	N	ASN A	29146.752	-9.977	-8.635	1.00	0.00	N
ATOM	365	CA	ASN A	29146.886	-11.426	-8.726	1.00	0.00	C
ATOM	366	C	ASN A	29146.958	-12.052	-7.335	1.00	0.00	C
ATOM	367	O	ASN A	29146.123	-12.880	-6.974	1.00	0.00	O
ATOM	368	CB	ASN A	29148.133	-11.794	-9.533	1.00	0.00	C
ATOM	369	CG	ASN A	29147.812	-12.105	-10.982	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.758	-13.268	-11.382	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.598	-11.063	-11.777	1.00	0.00	N
ATOM	372	H	ASN A	29147.448	-9.407	-9.023	1.00	0.00	H
ATOM	373	HA	ASN A	29146.013	-11.808	-9.235	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.828	-10.969	-9.507	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.597	-12.664	-9.092	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.658	-10.166	-11.389	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.388	-11.235	-12.719	1.00	0.00	H
ATOM	378	N	PRO A	30147.964	-11.661	-6.533	1.00	0.00	N

ATOM	379	CA	PRO A	30148.142	-12.186	-5.177	1.00	0.00	C
ATOM	380	C	PRO A	30147.167	-11.559	-4.180	1.00	0.00	C
ATOM	381	O	PRO A	30147.291	-10.383	-3.839	1.00	0.00	O
ATOM	382	CB	PRO A	30149.577	-11.785	-4.840	1.00	0.00	C
ATOM	383	CG	PRO A	30149.809	-10.537	-5.617	1.00	0.00	C
ATOM	384	CD	PRO A	30149.006	-10.676	-6.885	1.00	0.00	C
ATOM	385	HA	PRO A	30148.048	-13.261	-5.151	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.666	-11.614	-3.777	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.254	-12.571	-5.143	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.468	-9.684	-5.050	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.859	-10.438	-5.849	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.564	-9.730	-7.156	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.628	-11.045	-7.685	1.00	0.00	H
ATOM	392	N	PRO A	31146.181	-12.338	-3.697	1.00	0.00	N
ATOM	393	CA	PRO A	31145.190	-11.843	-2.736	1.00	0.00	C
ATOM	394	C	PRO A	31145.794	-11.586	-1.360	1.00	0.00	C
ATOM	395	O	PRO A	31146.067	-12.521	-0.606	1.00	0.00	O
ATOM	396	CB	PRO A	31144.165	-12.976	-2.667	1.00	0.00	C
ATOM	397	CG	PRO A	31144.925	-14.198	-3.043	1.00	0.00	C
ATOM	398	CD	PRO A	31145.955	-13.754	-4.044	1.00	0.00	C
ATOM	399	HA	PRO A	31144.712	-10.941	-3.091	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.770	-13.047	-1.663	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.361	-12.782	-3.362	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.408	-14.615	-2.170	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.260	-14.924	-3.487	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.863	-14.327	-3.934	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.569	-13.846	-5.048	1.00	0.00	H

ATOM	406	N	PHE A	32146.001	-10.313	-1.038	1.00	0.00	N
ATOM	407	CA	PHE A	32146.574	-9.933	0.248	1.00	0.00	C
ATOM	408	C	PHE A	32145.715	-8.877	0.935	1.00	0.00	C
ATOM	409	O	PHE A	32144.802	-8.315	0.330	1.00	0.00	O
ATOM	410	CB	PHE A	32147.998	-9.406	0.061	1.00	0.00	C
ATOM	411	CG	PHE A	32148.118	-8.373	-1.023	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.820	-8.648	-2.186	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.530	-7.127	-0.877	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.933	-7.700	-3.184	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.641	-6.173	-1.873	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.342	-6.460	-3.028	1.00	0.00	C
ATOM	417	H	PHE A	32145.764	-9.613	-1.680	1.00	0.00	H
ATOM	418	HA	PHE A	32146.606	-10.815	0.870	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.333	-8.959	0.985	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.649	-10.231	-0.190	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.281	-9.617	-2.308	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.982	-6.901	0.025	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.483	-7.927	-4.086	1.00	0.00	H
ATOM	424	HE2	PHE A	32147.178	-5.206	-1.748	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.429	-5.718	-3.807	1.00	0.00	H
ATOM	426	N	TYR A	33146.012	-8.612	2.203	1.00	0.00	N
ATOM	427	CA	TYR A	33145.266	-7.623	2.973	1.00	0.00	C
ATOM	428	C	TYR A	33146.213	-6.681	3.708	1.00	0.00	C
ATOM	429	O	TYR A	33147.222	-7.110	4.269	1.00	0.00	O
ATOM	430	CB	TYR A	33144.340	-8.318	3.973	1.00	0.00	C
ATOM	431	CG	TYR A	33143.079	-8.869	3.348	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.709	-10.196	3.538	1.00	0.00	C

ATOM	433	CD2 TYR A	33142.257	-8.064	2.568	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.557	-10.703	2.969	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.103	-8.566	1.996	1.00	0.00	C
ATOM	436	CZ TYR A	33140.758	-9.885	2.199	1.00	0.00	C
ATOM	437	OH TYR A	33139.610	-10.387	1.630	1.00	0.00	O
ATOM	438	H TYR A	33146.751	-9.094	2.631	1.00	0.00	H
ATOM	439	HA TYR A	33144.669	-7.047	2.282	1.00	0.00	H
ATOM	440	1HB TYR A	33144.869	-9.139	4.432	1.00	0.00	H
ATOM	441	2HB TYR A	33144.051	-7.610	4.736	1.00	0.00	H
ATOM	442	HD1 TYR A	33143.337	-10.833	4.141	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.531	-7.032	2.411	1.00	0.00	H
ATOM	444	HE1 TYR A	33141.286	-11.737	3.127	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.477	-7.924	1.393	1.00	0.00	H
ATOM	446	HH TYR A	33139.802	-11.228	1.209	1.00	0.00	H
ATOM	447	N GLY A	34145.881	-5.394	3.704	1.00	0.00	N
ATOM	448	CA GLY A	34146.711	-4.411	4.374	1.00	0.00	C
ATOM	449	C GLY A	34145.948	-3.149	4.725	1.00	0.00	C
ATOM	450	O GLY A	34144.896	-2.873	4.150	1.00	0.00	O
ATOM	451	H GLY A	34145.066	-5.109	3.241	1.00	0.00	H
ATOM	452	1HA GLY A	34147.103	-4.846	5.282	1.00	0.00	H
ATOM	453	2HA GLY A	34147.537	-4.151	3.727	1.00	0.00	H
ATOM	454	N VAL A	35146.480	-2.382	5.671	1.00	0.00	N
ATOM	455	CA VAL A	35145.842	-1.143	6.098	1.00	0.00	C
ATOM	456	C VAL A	35146.536	0.070	5.486	1.00	0.00	C
ATOM	457	O VAL A	35147.743	0.052	5.247	1.00	0.00	O
ATOM	458	CB VAL A	35145.848	-1.009	7.635	1.00	0.00	C
ATOM	459	CG1 VAL A	35147.273	-0.996	8.169	1.00	0.00	C

ATOM	460	CG2 VAL A	35145.095	0.240	8.067	1.00	0.00	C
ATOM	461	H VAL A	35147.322	-2.656	6.092	1.00	0.00	H
ATOM	462	HA VAL A	35144.816	-1.165	5.763	1.00	0.00	H
ATOM	463	HB VAL A	35145.342	-1.869	8.050	1.00	0.00	H
ATOM	464	1HG1 VAL A	35147.344	-0.295	8.987	1.00	0.00	H
ATOM	465	2HG1 VAL A	35147.950	-0.699	7.381	1.00	0.00	H
ATOM	466	3HG1 VAL A	35147.536	-1.984	8.516	1.00	0.00	H
ATOM	467	1HG2 VAL A	35145.576	1.113	7.652	1.00	0.00	H
ATOM	468	2HG2 VAL A	35145.096	0.307	9.145	1.00	0.00	H
ATOM	469	3HG2 VAL A	35144.076	0.188	7.712	1.00	0.00	H
ATOM	470	N ILE A	36145.764	1.122	5.233	1.00	0.00	N
ATOM	471	CA ILE A	36146.305	2.343	4.648	1.00	0.00	C
ATOM	472	C ILE A	36147.257	3.039	5.615	1.00	0.00	C
ATOM	473	O ILE A	36147.061	3.001	6.830	1.00	0.00	O
ATOM	474	CB ILE A	36145.182	3.324	4.253	1.00	0.00	C
ATOM	475	CG1 ILE A	36144.129	2.611	3.400	1.00	0.00	C
ATOM	476	CG2 ILE A	36145.758	4.516	3.505	1.00	0.00	C
ATOM	477	CD1 ILE A	36142.990	3.510	2.971	1.00	0.00	C
ATOM	478	H ILE A	36144.808	1.075	5.445	1.00	0.00	H
ATOM	479	HA ILE A	36146.848	2.073	3.754	1.00	0.00	H
ATOM	480	HB ILE A	36144.717	3.687	5.157	1.00	0.00	H
ATOM	481	1HG1 ILE A	36144.599	2.224	2.509	1.00	0.00	H
ATOM	482	2HG1 ILE A	36143.711	1.791	3.967	1.00	0.00	H
ATOM	483	1HG2 ILE A	36146.253	5.174	4.204	1.00	0.00	H
ATOM	484	2HG2 ILE A	36144.960	5.051	3.011	1.00	0.00	H
ATOM	485	3HG2 ILE A	36146.469	4.172	2.770	1.00	0.00	H
ATOM	486	1HD1 ILE A	36142.253	3.558	3.759	1.00	0.00	H

ATOM	487	2HD1	ILE A	36142.535	3.111	2.076	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.369	4.500	2.772	1.00	0.00	H
ATOM	489	N	ARG A	37148.287	3.674	5.067	1.00	0.00	N
ATOM	490	CA	ARG A	37149.271	4.379	5.882	1.00	0.00	C
ATOM	491	C	ARG A	37149.476	5.804	5.378	1.00	0.00	C
ATOM	492	O	ARG A	37149.174	6.769	6.080	1.00	0.00	O
ATOM	493	CB	ARG A	37150.604	3.626	5.872	1.00	0.00	C
ATOM	494	CG	ARG A	37150.463	2.137	6.139	1.00	0.00	C
ATOM	495	CD	ARG A	37149.863	1.870	7.511	1.00	0.00	C
ATOM	496	NE	ARG A	37150.865	1.945	8.571	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.616	1.661	9.847	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.401	1.284	10.226	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.585	1.755	10.749	1.00	0.00	N
ATOM	500	H	ARG A	37148.389	3.668	4.093	1.00	0.00	H
ATOM	501	HA	ARG A	37148.897	4.418	6.893	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.069	3.754	4.907	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.247	4.047	6.632	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.820	1.705	5.386	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.440	1.678	6.088	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.095	2.605	7.702	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.424	0.883	7.511	1.00	0.00	H
ATOM	508	HE	ARG A	37151.770	2.221	8.319	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.667	1.211	9.551	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.221	1.071	11.187	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.502	2.039	10.469	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.398	1.542	11.707	1.00	0.00	H
ATOM	513	N	TRP A	38149.989	5.929	4.158	1.00	0.00	N

ATOM	514	CA	TRP A	38150.233	7.238	3.563	1.00	0.00 C
ATOM	515	C	TRP A	38149.491	7.382	2.237	1.00	0.00 C
ATOM	516	O	TRP A	38149.514	6.481	1.399	1.00	0.00 O
ATOM	517	CB	TRP A	38151.735	7.456	3.349	1.00	0.00 C
ATOM	518	CG	TRP A	38152.054	8.673	2.533	1.00	0.00 C
ATOM	519	CD1	TRP A	38152.277	9.938	2.997	1.00	0.00 C
ATOM	520	CD2	TRP A	38152.180	8.741	1.107	1.00	0.00 C
ATOM	521	NE1	TRP A	38152.534	10.787	1.947	1.00	0.00 N
ATOM	522	CE2	TRP A	38152.480	10.075	0.777	1.00	0.00 C
ATOM	523	CE3	TRP A	38152.068	7.801	0.079	1.00	0.00 C
ATOM	524	CZ2	TRP A	38152.669	10.492	-0.540	1.00	0.00 C
ATOM	525	CZ3	TRP A	38152.256	8.216	-1.226	1.00	0.00 C
ATOM	526	CH2	TRP A	38152.554	9.551	-1.526	1.00	0.00 C
ATOM	527	H	TRP A	38150.208	5.122	3.646	1.00	0.00 H
ATOM	528	HA	TRP A	38149.865	7.987	4.249	1.00	0.00 H
ATOM	529	1HB	TRP A	38152.215	7.565	4.310	1.00	0.00 H
ATOM	530	2HB	TRP A	38152.147	6.595	2.842	1.00	0.00 H
ATOM	531	HD1	TRP A	38152.251	10.216	4.039	1.00	0.00 H
ATOM	532	HE1	TRP A	38152.725	11.746	2.023	1.00	0.00 H
ATOM	533	HE3	TRP A	38151.838	6.769	0.289	1.00	0.00 H
ATOM	534	HZ2	TRP A	38152.896	11.518	-0.788	1.00	0.00 H
ATOM	535	HZ3	TRP A	38152.173	7.503	-2.034	1.00	0.00 H
ATOM	536	HH2	TRP A	38152.693	9.829	-2.560	1.00	0.00 H
ATOM	537	N	ILE A	39148.842	8.527	2.055	1.00	0.00 N
ATOM	538	CA	ILE A	39148.100	8.803	0.831	1.00	0.00 C
ATOM	539	C	ILE A	39148.544	10.127	0.223	1.00	0.00 C
ATOM	540	O	ILE A	39148.213	11.197	0.735	1.00	0.00 O

ATOM	541	CB	ILE A	39146.583	8.851	1.090	1.00	0.00 C
ATOM	542	CG1	ILE A	39146.137	7.619	1.880	1.00	0.00 C
ATOM	543	CG2	ILE A	39145.824	8.946	-0.225	1.00	0.00 C
ATOM	544	CD1	ILE A	39144.728	7.725	2.420	1.00	0.00 C
ATOM	545	H	ILE A	39148.868	9.207	2.760	1.00	0.00 H
ATOM	546	HA	ILE A	39148.302	8.007	0.129	1.00	0.00 H
ATOM	547	HB	ILE A	39146.366	9.737	1.667	1.00	0.00 H
ATOM	548	1HG1	ILE A	39146.182	6.752	1.239	1.00	0.00 H
ATOM	549	2HG1	ILE A	39146.804	7.476	2.717	1.00	0.00 H
ATOM	550	1HG2	ILE A	39146.045	8.080	-0.832	1.00	0.00 H
ATOM	551	2HG2	ILE A	39146.125	9.840	-0.752	1.00	0.00 H
ATOM	552	3HG2	ILE A	39144.763	8.986	-0.028	1.00	0.00 H
ATOM	553	1HD1	ILE A	39144.041	7.263	1.727	1.00	0.00 H
ATOM	554	2HD1	ILE A	39144.468	8.765	2.547	1.00	0.00 H
ATOM	555	3HD1	ILE A	39144.669	7.221	3.374	1.00	0.00 H
ATOM	556	N	GLY A	40149.303	10.051	-0.866	1.00	0.00 N
ATOM	557	CA	GLY A	40149.784	11.256	-1.513	1.00	0.00 C
ATOM	558	C	GLY A	40150.325	11.000	-2.905	1.00	0.00 C
ATOM	559	O	GLY A	40150.197	9.896	-3.437	1.00	0.00 O
ATOM	560	H	GLY A	40149.542	9.172	-1.228	1.00	0.00 H
ATOM	561	1HA	GLY A	40148.973	11.963	-1.580	1.00	0.00 H
ATOM	562	2HA	GLY A	40150.569	11.684	-0.909	1.00	0.00 H
ATOM	563	N	GLN A	41150.931	12.024	-3.494	1.00	0.00 N
ATOM	564	CA	GLN A	41151.497	11.918	-4.833	1.00	0.00 C
ATOM	565	C	GLN A	41152.964	12.346	-4.832	1.00	0.00 C
ATOM	566	O	GLN A	41153.276	13.509	-4.574	1.00	0.00 O
ATOM	567	CB	GLN A	41150.698	12.783	-5.807	1.00	0.00 C

ATOM	568	CG	GLN A	41149.196	12.573	-5.716	1.00	0.00	C
ATOM	569	CD	GLN A	41148.417	13.867	-5.845	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.369	14.671	-4.914	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.802	14.074	-7.002	1.00	0.00	N
ATOM	572	H	GLN A	41150.998	12.876	-3.016	1.00	0.00	H
ATOM	573	HA	GLN A	41151.430	10.886	-5.142	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.906	13.822	-5.600	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.013	12.556	-6.814	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.889	11.906	-6.508	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.965	12.125	-4.761	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.884	13.389	-7.698	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.291	14.902	-7.114	1.00	0.00	H
ATOM	580	N	PRO A	42153.889	11.412	-5.117	1.00	0.00	N
ATOM	581	CA	PRO A	42155.326	11.708	-5.142	1.00	0.00	C
ATOM	582	C	PRO A	42155.671	12.825	-6.122	1.00	0.00	C
ATOM	583	O	PRO A	42154.902	13.119	-7.038	1.00	0.00	O
ATOM	584	CB	PRO A	42155.961	10.387	-5.590	1.00	0.00	C
ATOM	585	CG	PRO A	42154.953	9.346	-5.249	1.00	0.00	C
ATOM	586	CD	PRO A	42153.614	10.000	-5.435	1.00	0.00	C
ATOM	587	HA	PRO A	42155.691	11.970	-4.160	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.152	10.420	-6.653	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.886	10.230	-5.057	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.054	8.501	-5.913	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.078	9.034	-4.222	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.280	9.891	-6.457	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.891	9.583	-4.751	1.00	0.00	H
ATOM	594	N	PRO A	43156.841	13.463	-5.943	1.00	0.00	N

ATOM	595	CA	PRO A	43157.286	14.551	-6.816	1.00	0.00 C
ATOM	596	C	PRO A	43157.707	14.053	-8.193	1.00	0.00 C
ATOM	597	O	PRO A	43158.879	13.762	-8.429	1.00	0.00 O
ATOM	598	CB	PRO A	43158.488	15.132	-6.072	1.00	0.00 C
ATOM	599	CG	PRO A	43159.013	14.001	-5.259	1.00	0.00 C
ATOM	600	CD	PRO A	43157.817	13.173	-4.876	1.00	0.00 C
ATOM	601	HA	PRO A	43156.525	15.310	-6.925	1.00	0.00 H
ATOM	602	1HB	PRO A	43159.220	15.481	-6.786	1.00	0.00 H
ATOM	603	2HB	PRO A	43158.167	15.952	-5.447	1.00	0.00 H
ATOM	604	1HG	PRO A	43159.702	13.414	-5.848	1.00	0.00 H
ATOM	605	2HG	PRO A	43159.504	14.381	-4.375	1.00	0.00 H
ATOM	606	1HD	PRO A	43158.074	12.124	-4.864	1.00	0.00 H
ATOM	607	2HD	PRO A	43157.438	13.479	-3.913	1.00	0.00 H
ATOM	608	N	GLY A	44156.742	13.956	-9.102	1.00	0.00 N
ATOM	609	CA	GLY A	44157.035	13.493	-10.444	1.00	0.00 C
ATOM	610	C	GLY A	44155.815	12.935	-11.146	1.00	0.00 C
ATOM	611	O	GLY A	44155.511	13.319	-12.275	1.00	0.00 O
ATOM	612	H	GLY A	44155.826	14.202	-8.859	1.00	0.00 H
ATOM	613	1HA	GLY A	44157.422	14.318	-11.021	1.00	0.00 H
ATOM	614	2HA	GLY A	44157.789	12.721	-10.389	1.00	0.00 H
ATOM	615	N	LEU A	45155.112	12.028	-10.476	1.00	0.00 N
ATOM	616	CA	LEU A	45153.916	11.419	-11.047	1.00	0.00 C
ATOM	617	C	LEU A	45152.704	11.673	-10.162	1.00	0.00 C
ATOM	618	O	LEU A	45152.622	11.161	-9.045	1.00	0.00 O
ATOM	619	CB	LEU A	45154.123	9.914	-11.228	1.00	0.00 C
ATOM	620	CG	LEU A	45154.702	9.190	-10.012	1.00	0.00 C
ATOM	621	CD1	LEU A	45154.398	7.699	-10.079	1.00	0.00 C

ATOM	622	CD2	LEU A	45156.202	9.431	-9.913	1.00	0.00	C
ATOM	623	H	LEU A	45155.402	11.763	-9.577	1.00	0.00	H
ATOM	624	HA	LEU A	45153.744	11.868	-12.013	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.168	9.467	-11.467	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.792	9.761	-12.061	1.00	0.00	H
ATOM	627	HG	LEU A	45154.240	9.583	-9.116	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.895	7.394	-9.174	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.321	7.147	-10.182	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.763	7.498	-10.930	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.405	10.107	-9.095	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.558	9.867	-10.836	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.709	8.493	-9.739	1.00	0.00	H
ATOM	634	N	ASN A	46151.760	12.464	-10.662	1.00	0.00	N
ATOM	635	CA	ASN A	46150.556	12.771	-9.903	1.00	0.00	C
ATOM	636	C	ASN A	46149.628	11.563	-9.860	1.00	0.00	C
ATOM	637	O	ASN A	46149.007	11.207	-10.861	1.00	0.00	O
ATOM	638	CB	ASN A	46149.829	13.967	-10.521	1.00	0.00	C
ATOM	639	CG	ASN A	46148.973	14.709	-9.514	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.746	14.622	-9.540	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.619	15.445	-8.617	1.00	0.00	N
ATOM	642	H	ASN A	46151.875	12.844	-11.558	1.00	0.00	H
ATOM	643	HA	ASN A	46150.852	13.021	-8.895	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.557	14.655	-10.922	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.191	13.619	-11.320	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.599	15.468	-8.655	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.091	15.936	-7.953	1.00	0.00	H
ATOM	648	N	GLU A	47149.543	10.935	-8.693	1.00	0.00	N

ATOM	649	CA	GLU A	47148.693	9.766	-8.511	1.00	0.00	C
ATOM	650	C	GLU A	47148.523	9.444	-7.031	1.00	0.00	C
ATOM	651	O	GLU A	47149.502	9.193	-6.327	1.00	0.00	O
ATOM	652	CB	GLU A	47149.286	8.558	-9.243	1.00	0.00	C
ATOM	653	CG	GLU A	47150.801	8.468	-9.150	1.00	0.00	C
ATOM	654	CD	GLU A	47151.389	7.499	-10.156	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.498	7.871	-11.345	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.742	6.370	-9.757	1.00	0.00	O
ATOM	657	H	GLU A	47150.064	11.268	-7.933	1.00	0.00	H
ATOM	658	HA	GLU A	47147.725	9.991	-8.932	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.866	7.656	-8.820	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.014	8.615	-10.286	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.218	9.446	-9.329	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.070	8.140	-8.157	1.00	0.00	H
ATOM	663	N	VAL A	48147.281	9.445	-6.564	1.00	0.00	N
ATOM	664	CA	VAL A	48146.998	9.146	-5.167	1.00	0.00	C
ATOM	665	C	VAL A	48147.382	7.708	-4.839	1.00	0.00	C
ATOM	666	O	VAL A	48146.654	6.771	-5.164	1.00	0.00	O
ATOM	667	CB	VAL A	48145.510	9.358	-4.832	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.280	9.261	-3.332	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.028	10.698	-5.367	1.00	0.00	C
ATOM	670	H	VAL A	48146.539	9.647	-7.171	1.00	0.00	H
ATOM	671	HA	VAL A	48147.586	9.814	-4.555	1.00	0.00	H
ATOM	672	HB	VAL A	48144.938	8.577	-5.311	1.00	0.00	H
ATOM	673	1HG1	VAL A	48146.009	9.870	-2.816	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.384	8.234	-3.018	1.00	0.00	H
ATOM	675	3HG1	VAL A	48144.286	9.612	-3.096	1.00	0.00	H

ATOM	676	1HG2 VAL A	48144.888	10.631	-6.435	1.00	0.00	H
ATOM	677	2HG2 VAL A	48145.764	11.458	-5.149	1.00	0.00	H
ATOM	678	3HG2 VAL A	48144.092	10.958	-4.896	1.00	0.00	H
ATOM	679	N LEU A	49148.535	7.539	-4.201	1.00	0.00	N
ATOM	680	CA LEU A	49149.018	6.214	-3.836	1.00	0.00	C
ATOM	681	C LEU A	49148.878	5.981	-2.338	1.00	0.00	C
ATOM	682	O LEU A	49149.538	6.638	-1.532	1.00	0.00	O
ATOM	683	CB LEU A	49150.480	6.046	-4.256	1.00	0.00	C
ATOM	684	CG LEU A	49150.733	6.129	-5.763	1.00	0.00	C
ATOM	685	CD1 LEU A	49152.125	6.676	-6.041	1.00	0.00	C
ATOM	686	CD2 LEU A	49150.556	4.763	-6.408	1.00	0.00	C
ATOM	687	H LEU A	49149.075	8.325	-3.971	1.00	0.00	H
ATOM	688	HA LEU A	49148.417	5.486	-4.360	1.00	0.00	H
ATOM	689	1HB LEU A	49151.062	6.815	-3.771	1.00	0.00	H
ATOM	690	2HB LEU A	49150.824	5.084	-3.910	1.00	0.00	H
ATOM	691	HG LEU A	49150.016	6.805	-6.206	1.00	0.00	H
ATOM	692	1HD1 LEU A	49152.859	6.065	-5.535	1.00	0.00	H
ATOM	693	2HD1 LEU A	49152.192	7.691	-5.679	1.00	0.00	H
ATOM	694	3HD1 LEU A	49152.313	6.658	-7.104	1.00	0.00	H
ATOM	695	1HD2 LEU A	49151.466	4.192	-6.299	1.00	0.00	H
ATOM	696	2HD2 LEU A	49150.332	4.887	-7.458	1.00	0.00	H
ATOM	697	3HD2 LEU A	49149.744	4.241	-5.927	1.00	0.00	H
ATOM	698	N ALA A	50148.016	5.041	-1.969	1.00	0.00	N
ATOM	699	CA ALA A	50147.792	4.725	-0.567	1.00	0.00	C
ATOM	700	C ALA A	50148.710	3.597	-0.106	1.00	0.00	C
ATOM	701	O ALA A	50148.601	2.465	-0.577	1.00	0.00	O
ATOM	702	CB ALA A	50146.334	4.353	-0.335	1.00	0.00	C

ATOM	703	H	ALA A	50147.518	4.551	-2.657	1.00	0.00	H
ATOM	704	HA	ALA A	50148.009	5.613	0.009	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.791	5.222	0.005	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.275	3.576	0.412	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.903	3.997	-1.259	1.00	0.00	H
ATOM	708	N	GLY A	51149.612	3.914	0.815	1.00	0.00	N
ATOM	709	CA	GLY A	51150.535	2.916	1.323	1.00	0.00	C
ATOM	710	C	GLY A	51149.844	1.863	2.167	1.00	0.00	C
ATOM	711	O	GLY A	51149.329	2.161	3.245	1.00	0.00	O
ATOM	712	H	GLY A	51149.653	4.833	1.153	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.018	2.431	0.488	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.286	3.408	1.924	1.00	0.00	H
ATOM	715	N	LEU A	52149.831	0.629	1.676	1.00	0.00	N
ATOM	716	CA	LEU A	52149.197	-0.472	2.394	1.00	0.00	C
ATOM	717	C	LEU A	52150.243	-1.373	3.043	1.00	0.00	C
ATOM	718	O	LEU A	52151.202	-1.795	2.395	1.00	0.00	O
ATOM	719	CB	LEU A	52148.321	-1.291	1.444	1.00	0.00	C
ATOM	720	CG	LEU A	52147.056	-0.582	0.958	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.413	-1.358	-0.180	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.072	-0.402	2.105	1.00	0.00	C
ATOM	723	H	LEU A	52150.258	0.452	0.813	1.00	0.00	H
ATOM	724	HA	LEU A	52148.576	-0.048	3.168	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.914	-1.558	0.582	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.025	-2.197	1.951	1.00	0.00	H
ATOM	727	HG	LEU A	52147.320	0.398	0.587	1.00	0.00	H
ATOM	728	1HD1	LEU A	52147.183	-1.760	-0.823	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.776	-0.698	-0.752	1.00	0.00	H

ATOM	730	3HD1	LEU A	52145.822	-2.167	0.223	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.235	-1.174	2.843	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.063	-0.473	1.728	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.220	0.567	2.558	1.00	0.00	H
ATOM	734	N	GLU A	53150.052	-1.664	4.326	1.00	0.00	N
ATOM	735	CA	GLU A	53150.978	-2.514	5.063	1.00	0.00	C
ATOM	736	C	GLU A	53150.455	-3.945	5.146	1.00	0.00	C
ATOM	737	O	GLU A	53149.489	-4.223	5.858	1.00	0.00	O
ATOM	738	CB	GLU A	53151.204	-1.959	6.470	1.00	0.00	C
ATOM	739	CG	GLU A	53152.193	-2.769	7.292	1.00	0.00	C
ATOM	740	CD	GLU A	53151.825	-2.820	8.762	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.789	-3.436	9.095	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.571	-2.244	9.581	1.00	0.00	O
ATOM	743	H	GLU A	53149.269	-1.297	4.787	1.00	0.00	H
ATOM	744	HA	GLU A	53151.919	-2.519	4.532	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.577	-0.949	6.391	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.259	-1.944	6.995	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.219	-3.779	6.909	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.172	-2.323	7.196	1.00	0.00	H
ATOM	749	N	LEU A	54151.097	-4.848	4.413	1.00	0.00	N
ATOM	750	CA	LEU A	54150.696	-6.250	4.404	1.00	0.00	C
ATOM	751	C	LEU A	54150.964	-6.903	5.757	1.00	0.00	C
ATOM	752	O	LEU A	54152.037	-6.735	6.335	1.00	0.00	O
ATOM	753	CB	LEU A	54151.439	-7.008	3.302	1.00	0.00	C
ATOM	754	CG	LEU A	54151.377	-6.362	1.917	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.577	-6.778	1.080	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.080	-6.734	1.215	1.00	0.00	C

ATOM	757	H	LEU A	54151.859	-4.565	3.866	1.00	0.00 H
ATOM	758	HA	LEU A	54149.635	-6.290	4.203	1.00	0.00 H
ATOM	759	1HB	LEU A	54152.476	-7.094	3.591	1.00	0.00 H
ATOM	760	2HB	LEU A	54151.019	-8.000	3.231	1.00	0.00 H
ATOM	761	HG	LEU A	54151.404	-5.288	2.026	1.00	0.00 H
ATOM	762	1HD1	LEU A	54152.294	-6.815	0.038	1.00	0.00 H
ATOM	763	2HD1	LEU A	54152.914	-7.755	1.396	1.00	0.00 H
ATOM	764	3HD1	LEU A	54153.373	-6.062	1.212	1.00	0.00 H
ATOM	765	1HD2	LEU A	54150.087	-6.336	0.212	1.00	0.00 H
ATOM	766	2HD2	LEU A	54149.244	-6.321	1.761	1.00	0.00 H
ATOM	767	3HD2	LEU A	54149.988	-7.809	1.175	1.00	0.00 H
ATOM	768	N	GLU A	55149.981	-7.645	6.255	1.00	0.00 N
ATOM	769	CA	GLU A	55150.112	-8.323	7.540	1.00	0.00 C
ATOM	770	C	GLU A	55151.134	-9.452	7.459	1.00	0.00 C
ATOM	771	O	GLU A	55151.849	-9.725	8.422	1.00	0.00 O
ATOM	772	CB	GLU A	55148.758	-8.876	7.988	1.00	0.00 C
ATOM	773	CG	GLU A	55147.661	-7.825	8.049	1.00	0.00 C
ATOM	774	CD	GLU A	55146.606	-8.144	9.089	1.00	0.00 C
ATOM	775	OE1	GLU A	55146.111	-7.202	9.743	1.00	0.00 O
ATOM	776	OE2	GLU A	55146.273	-9.338	9.250	1.00	0.00 O
ATOM	777	H	GLU A	55149.149	-7.740	5.746	1.00	0.00 H
ATOM	778	HA	GLU A	55150.452	-7.597	8.264	1.00	0.00 H
ATOM	779	1HB	GLU A	55148.450	-9.646	7.297	1.00	0.00 H
ATOM	780	2HB	GLU A	55148.867	-9.310	8.971	1.00	0.00 H
ATOM	781	1HG	GLU A	55148.106	-6.873	8.292	1.00	0.00 H
ATOM	782	2HG	GLU A	55147.185	-7.764	7.081	1.00	0.00 H
ATOM	783	N	ASP A	56151.196	-10.104	6.302	1.00	0.00 N

ATOM	784	CA	ASP A	56152.131 -11.204	6.095	1.00	0.00 C
ATOM	785	C	ASP A	56153.441 -10.699	5.500	1.00	0.00 C
ATOM	786	O	ASP A	56153.443 -9.875	4.585	1.00	0.00 O
ATOM	787	CB	ASP A	56151.513 -12.260	5.178	1.00	0.00 C
ATOM	788	CG	ASP A	56151.896 -13.671	5.579	1.00	0.00 C
ATOM	789	OD1	ASP A	56152.482 -14.388	4.741	1.00	0.00 O
ATOM	790	OD2	ASP A	56151.612 -14.057	6.733	1.00	0.00 O
ATOM	791	H	ASP A	56150.601 -9.839	5.571	1.00	0.00 H
ATOM	792	HA	ASP A	56152.336 -11.650	7.057	1.00	0.00 H
ATOM	793	1HB	ASP A	56150.437 -12.175	5.214	1.00	0.00 H
ATOM	794	2HB	ASP A	56151.849 -12.090	4.165	1.00	0.00 H
ATOM	795	N	GLU A	57154.555 -11.200	6.023	1.00	0.00 N
ATOM	796	CA	GLU A	57155.873 -10.799	5.543	1.00	0.00 C
ATOM	797	C	GLU A	57156.191 -11.467	4.209	1.00	0.00 C
ATOM	798	O	GLU A	57156.569 -12.637	4.163	1.00	0.00 O
ATOM	799	CB	GLU A	57156.945 -11.158	6.573	1.00	0.00 C
ATOM	800	CG	GLU A	57157.202 -10.058	7.591	1.00	0.00 C
ATOM	801	CD	GLU A	57158.675 -9.895	7.913	1.00	0.00 C
ATOM	802	OE1	GLU A	57159.507 -10.090	7.002	1.00	0.00 O
ATOM	803	OE2	GLU A	57158.996 -9.573	9.076	1.00	0.00 O
ATOM	804	H	GLU A	57154.490 -11.854	6.750	1.00	0.00 H
ATOM	805	HA	GLU A	57155.864 -9.729	5.403	1.00	0.00 H
ATOM	806	1HB	GLU A	57156.635 -12.045	7.106	1.00	0.00 H
ATOM	807	2HB	GLU A	57157.871 -11.364	6.057	1.00	0.00 H
ATOM	808	1HG	GLU A	57156.832 -9.125	7.194	1.00	0.00 H
ATOM	809	2HG	GLU A	57156.673 -10.298	8.502	1.00	0.00 H
ATOM	810	N	CYS A	58156.035 -10.715	3.125	1.00	0.00 N

ATOM	811	CA	CYS A	58156.305	-11.234	1.789	1.00	0.00	C
ATOM	812	C	CYS A	58157.612	-10.668	1.241	1.00	0.00	C
ATOM	813	O	CYS A	58157.877	-9.472	1.350	1.00	0.00	O
ATOM	814	CB	CYS A	58155.153	-10.892	0.844	1.00	0.00	C
ATOM	815	SG	CYS A	58154.828	-12.155	-0.409	1.00	0.00	S
ATOM	816	H	CYS A	58155.731	-9.788	3.225	1.00	0.00	H
ATOM	817	HA	CYS A	58156.393	-12.307	1.862	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.249	-10.764	1.421	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.378	-9.970	0.330	1.00	0.00	H
ATOM	820	HG	CYS A	58155.382	-11.967	-1.171	1.00	0.00	H
ATOM	821	N	ALAA	59158.424	-11.538	0.649	1.00	0.00	N
ATOM	822	CA	ALAA	59159.704	-11.127	0.083	1.00	0.00	C
ATOM	823	C	ALAA	59159.504	-10.336	-1.206	1.00	0.00	C
ATOM	824	O	ALAA	59158.946	-10.845	-2.177	1.00	0.00	O
ATOM	825	CB	ALAA	59160.583	-12.342	-0.172	1.00	0.00	C
ATOM	826	H	ALAA	59158.157	-12.480	0.592	1.00	0.00	H
ATOM	827	HA	ALAA	59160.201	-10.498	0.806	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.533	-13.006	0.679	1.00	0.00	H
ATOM	829	2HB	ALAA	59161.604	-12.022	-0.319	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.235	-12.859	-1.053	1.00	0.00	H
ATOM	831	N	GLY A	60159.964	-9.090	-1.206	1.00	0.00	N
ATOM	832	CA	GLY A	60159.828	-8.249	-2.381	1.00	0.00	C
ATOM	833	C	GLY A	60159.332	-6.857	-2.044	1.00	0.00	C
ATOM	834	O	GLY A	60159.634	-5.895	-2.751	1.00	0.00	O
ATOM	835	H	GLY A	60160.402	-8.738	-0.403	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.789	-8.169	-2.868	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.129	-8.713	-3.063	1.00	0.00	H

ATOM	838	N	CYS A	61158.569	-6.749	-0.961	1.00	0.00	N
ATOM	839	CA	CYS A	61158.030	-5.464	-0.533	1.00	0.00	C
ATOM	840	C	CYS A	61159.088	-4.647	0.201	1.00	0.00	C
ATOM	841	O	CYS A	61160.199	-5.122	0.439	1.00	0.00	O
ATOM	842	CB	CYS A	61156.814	-5.674	0.372	1.00	0.00	C
ATOM	843	SG	CYS A	61155.538	-6.739	-0.343	1.00	0.00	S
ATOM	844	H	CYS A	61158.363	-7.552	-0.440	1.00	0.00	H
ATOM	845	HA	CYS A	61157.721	-4.923	-1.414	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.137	-6.126	1.297	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.361	-4.716	0.584	1.00	0.00	H
ATOM	848	HG	CYS A	61155.374	-6.443	-1.241	1.00	0.00	H
ATOM	849	N	THR A	62158.736	-3.416	0.557	1.00	0.00	N
ATOM	850	CA	THR A	62159.656	-2.532	1.265	1.00	0.00	C
ATOM	851	C	THR A	62159.205	-2.320	2.707	1.00	0.00	C
ATOM	852	O	THR A	62158.208	-2.893	3.147	1.00	0.00	O
ATOM	853	CB	THR A	62159.755	-1.186	0.546	1.00	0.00	C
ATOM	854	OG1	THR A	62158.468	-0.633	0.336	1.00	0.00	O
ATOM	855	CG2	THR A	62160.441	-1.276	-0.800	1.00	0.00	C
ATOM	856	H	THR A	62157.835	-3.094	0.341	1.00	0.00	H
ATOM	857	HA	THR A	62160.628	-3.001	1.270	1.00	0.00	H
ATOM	858	HB	THR A	62160.322	-0.502	1.161	1.00	0.00	H
ATOM	859	HG1	THR A	62158.158	-0.226	1.149	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.407	-2.296	-1.154	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.470	-0.963	-0.701	1.00	0.00	H
ATOM	862	3HG2	THR A	62159.936	-0.634	-1.506	1.00	0.00	H
ATOM	863	N	ASP A	63159.946	-1.492	3.437	1.00	0.00	N
ATOM	864	CA	ASP A	63159.622	-1.204	4.830	1.00	0.00	C

ATOM	865	C	ASP A	63158.872	0.118	4.951	1.00	0.00 C
ATOM	866	O	ASP A	63158.994	0.823	5.953	1.00	0.00 O
ATOM	867	CB	ASP A	63160.897	-1.160	5.673	1.00	0.00 C
ATOM	868	CG	ASP A	63161.958	-0.260	5.071	1.00	0.00 C
ATOM	869	OD1	ASP A	63161.917	0.962	5.329	1.00	0.00 O
ATOM	870	OD2	ASP A	63162.830	-0.775	4.341	1.00	0.00 O
ATOM	871	H	ASP A	63160.728	-1.066	3.030	1.00	0.00 H
ATOM	872	HA	ASP A	63158.988	-1.998	5.194	1.00	0.00 H
ATOM	873	1HB	ASP A	63160.658	-0.792	6.659	1.00	0.00 H
ATOM	874	2HB	ASP A	63161.302	-2.158	5.755	1.00	0.00 H
ATOM	875	N	GLY A	64158.097	0.449	3.923	1.00	0.00 N
ATOM	876	CA	GLY A	64157.338	1.687	3.936	1.00	0.00 C
ATOM	877	C	GLY A	64158.086	2.832	3.282	1.00	0.00 C
ATOM	878	O	GLY A	64158.057	3.960	3.772	1.00	0.00 O
ATOM	879	H	GLY A	64158.038	-0.151	3.152	1.00	0.00 H
ATOM	880	1HA	GLY A	64156.408	1.532	3.409	1.00	0.00 H
ATOM	881	2HA	GLY A	64157.119	1.951	4.959	1.00	0.00 H
ATOM	882	N	THR A	65158.759	2.540	2.173	1.00	0.00 N
ATOM	883	CA	THR A	65159.518	3.555	1.451	1.00	0.00 C
ATOM	884	C	THR A	65159.186	3.527	-0.037	1.00	0.00 C
ATOM	885	O	THR A	65159.401	2.520	-0.712	1.00	0.00 O
ATOM	886	CB	THR A	65161.018	3.339	1.654	1.00	0.00 C
ATOM	887	OG1	THR A	65161.361	1.979	1.450	1.00	0.00 O
ATOM	888	CG2	THR A	65161.498	3.730	3.036	1.00	0.00 C
ATOM	889	H	THR A	65158.743	1.622	1.832	1.00	0.00 H
ATOM	890	HA	THR A	65159.246	4.520	1.851	1.00	0.00 H
ATOM	891	HB	THR A	65161.559	3.937	0.935	1.00	0.00 H

ATOM	892	HG1 THR A	65160.987	1.675	0.620	1.00	0.00 H
ATOM	893	1HG2 THR A	65161.971	2.882	3.507	1.00	0.00 H
ATOM	894	2HG2 THR A	65160.656	4.050	3.632	1.00	0.00 H
ATOM	895	3HG2 THR A	65162.209	4.539	2.954	1.00	0.00 H
ATOM	896	N PHE A	66158.661	4.639	-0.541	1.00	0.00 N
ATOM	897	CA PHE A	66158.299	4.742	-1.950	1.00	0.00 C
ATOM	898	C PHE A	66159.221	5.716	-2.679	1.00	0.00 C
ATOM	899	O PHE A	66159.301	6.892	-2.326	1.00	0.00 O
ATOM	900	CB PHE A	66156.845	5.196	-2.093	1.00	0.00 C
ATOM	901	CG PHE A	66156.255	4.906	-3.443	1.00	0.00 C
ATOM	902	CD1 PHE A	66155.891	3.615	-3.791	1.00	0.00 C
ATOM	903	CD2 PHE A	66156.065	5.924	-4.364	1.00	0.00 C
ATOM	904	CE1 PHE A	66155.348	3.345	-5.033	1.00	0.00 C
ATOM	905	CE2 PHE A	66155.523	5.659	-5.607	1.00	0.00 C
ATOM	906	CZ PHE A	66155.163	4.368	-5.943	1.00	0.00 C
ATOM	907	H PHE A	66158.514	5.408	0.047	1.00	0.00 H
ATOM	908	HA PHE A	66158.406	3.764	-2.393	1.00	0.00 H
ATOM	909	1HB PHE A	66156.243	4.691	-1.353	1.00	0.00 H
ATOM	910	2HB PHE A	66156.791	6.263	-1.927	1.00	0.00 H
ATOM	911	HD1 PHE A	66156.035	2.814	-3.082	1.00	0.00 H
ATOM	912	HD2 PHE A	66156.345	6.933	-4.104	1.00	0.00 H
ATOM	913	HE1 PHE A	66155.069	2.333	-5.293	1.00	0.00 H
ATOM	914	HE2 PHE A	66155.379	6.461	-6.316	1.00	0.00 H
ATOM	915	HZ PHE A	66154.739	4.159	-6.913	1.00	0.00 H
ATOM	916	N ARG A	67159.915	5.216	-3.697	1.00	0.00 N
ATOM	917	CA ARG A	67160.832	6.041	-4.475	1.00	0.00 C
ATOM	918	C ARG A	67161.929	6.620	-3.587	1.00	0.00 C

ATOM	919	O	ARG A	67162.433	7.715	-3.841	1.00	0.00	O
ATOM	920	CB	ARG A	67160.070	7.173	-5.166	1.00	0.00	C
ATOM	921	CG	ARG A	67158.877	6.694	-5.979	1.00	0.00	C
ATOM	922	CD	ARG A	67159.187	6.672	-7.467	1.00	0.00	C
ATOM	923	NE	ARG A	67158.148	5.989	-8.234	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.009	6.095	-9.553	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.840	6.854	-10.257	1.00	0.00	N
ATOM	926	NH2	ARG A	67157.035	5.440	-10.172	1.00	0.00	N
ATOM	927	H	ARG A	67159.809	4.270	-3.929	1.00	0.00	H
ATOM	928	HA	ARG A	67161.287	5.413	-5.225	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.713	7.862	-4.417	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.746	7.692	-5.830	1.00	0.00	H
ATOM	931	1HG	ARG A	67158.615	5.696	-5.662	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.045	7.361	-5.805	1.00	0.00	H
ATOM	933	1HD	ARG A	67159.272	7.689	-7.821	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.127	6.161	-7.618	1.00	0.00	H
ATOM	935	HE	ARG A	67157.520	5.422	-7.739	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.576	7.350	-9.797	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.731	6.929	-11.248	1.00	0.00	H
ATOM	938	1HH2	ARG A	67156.407	4.867	-9.647	1.00	0.00	H
ATOM	939	2HH2	ARG A	67156.931	5.520	-11.163	1.00	0.00	H
ATOM	940	N	GLY A	68162.294	5.880	-2.546	1.00	0.00	N
ATOM	941	CA	GLY A	68163.328	6.336	-1.637	1.00	0.00	C
ATOM	942	C	GLY A	68162.851	7.452	-0.728	1.00	0.00	C
ATOM	943	O	GLY A	68163.645	8.277	-0.277	1.00	0.00	O
ATOM	944	H	GLY A	68161.858	5.016	-2.394	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.650	5.504	-1.028	1.00	0.00	H

ATOM	946	2HA	GLY A	68164.169	6.692	-2.215	1.00	0.00	H
ATOM	947	N	THR A	69161.549	7.477	-0.459	1.00	0.00	N
ATOM	948	CA	THR A	69160.967	8.500	0.402	1.00	0.00	C
ATOM	949	C	THR A	69160.013	7.879	1.417	1.00	0.00	C
ATOM	950	O	THR A	69158.835	7.665	1.126	1.00	0.00	O
ATOM	951	CB	THR A	69160.228	9.543	-0.438	1.00	0.00	C
ATOM	952	OG1	THR A	69161.060	10.033	-1.474	1.00	0.00	O
ATOM	953	CG2	THR A	69159.750	10.732	0.367	1.00	0.00	C
ATOM	954	H	THR A	69160.967	6.792	-0.848	1.00	0.00	H
ATOM	955	HA	THR A	69161.772	8.984	0.934	1.00	0.00	H
ATOM	956	HB	THR A	69159.362	9.079	-0.889	1.00	0.00	H
ATOM	957	HG1	THR A	69161.864	10.397	-1.095	1.00	0.00	H
ATOM	958	1HG2	THR A	69158.755	11.006	0.048	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.421	11.564	0.214	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.732	10.473	1.416	1.00	0.00	H
ATOM	961	N	ARG A	70160.528	7.590	2.608	1.00	0.00	N
ATOM	962	CA	ARG A	70159.721	6.993	3.665	1.00	0.00	C
ATOM	963	C	ARG A	70158.604	7.938	4.097	1.00	0.00	C
ATOM	964	O	ARG A	70158.855	9.085	4.463	1.00	0.00	O
ATOM	965	CB	ARG A	70160.598	6.640	4.867	1.00	0.00	C
ATOM	966	CG	ARG A	70159.836	5.977	6.004	1.00	0.00	C
ATOM	967	CD	ARG A	70160.300	6.481	7.361	1.00	0.00	C
ATOM	968	NE	ARG A	70160.874	5.412	8.175	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.488	5.614	9.338	1.00	0.00	C
ATOM	970	NH1	ARG A	70161.607	6.842	9.829	1.00	0.00	N
ATOM	971	NH2	ARG A	70161.982	4.586	10.014	1.00	0.00	N
ATOM	972	H	ARG A	70161.472	7.783	2.779	1.00	0.00	H

ATOM	973	HA	ARG A	70159.279	6.088	3.274	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.378	5.965	4.544	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.052	7.544	5.245	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.784	6.193	5.892	1.00	0.00	H
ATOM	977	2HG	ARG A	70159.992	4.908	5.953	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.046	7.247	7.213	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.453	6.901	7.883	1.00	0.00	H
ATOM	980	HE	ARG A	70160.800	4.496	7.836	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.237	7.621	9.325	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.069	6.987	10.705	1.00	0.00	H
ATOM	983	1HH2	ARG A	70161.894	3.659	9.650	1.00	0.00	H
ATOM	984	2HH2	ARG A	70162.443	4.738	10.889	1.00	0.00	H
ATOM	985	N	TYR A	71157.370	7.446	4.052	1.00	0.00	N
ATOM	986	CA	TYR A	71156.214	8.246	4.439	1.00	0.00	C
ATOM	987	C	TYR A	71155.763	7.901	5.855	1.00	0.00	C
ATOM	988	O	TYR A	71155.335	8.772	6.611	1.00	0.00	O
ATOM	989	CB	TYR A	71155.062	8.026	3.457	1.00	0.00	C
ATOM	990	CG	TYR A	71155.320	8.599	2.082	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.325	7.783	0.958	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.557	9.957	1.908	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.560	8.303	-0.301	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.793	10.485	0.652	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.794	9.654	-0.448	1.00	0.00	C
ATOM	996	OH	TYR A	71156.028	10.176	-1.700	1.00	0.00	O
ATOM	997	H	TYR A	71157.233	6.523	3.751	1.00	0.00	H
ATOM	998	HA	TYR A	71156.506	9.285	4.410	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.891	6.965	3.347	1.00	0.00	H

ATOM	1000	2HB	TYR A	71154.170	8.491	3.849	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.142	6.725	1.076	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.557	10.605	2.772	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.561	7.653	-1.163	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.976	11.543	0.538	1.00	0.00	H
ATOM	1005	HH	TYR A	71155.312	9.928	-2.289	1.00	0.00	H
ATOM	1006	N	PHE A	72155.865	6.623	6.207	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.467	6.162	7.533	1.00	0.00	C
ATOM	1008	C	PHE A	72156.458	5.134	8.069	1.00	0.00	C
ATOM	1009	O	PHE A	72157.415	4.764	7.388	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.063	5.558	7.486	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.887	4.530	6.405	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.603	4.914	5.104	1.00	0.00	C
ATOM	1013	CD2	PHE A	72154.006	3.179	6.690	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.441	3.971	4.108	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.844	2.231	5.697	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.562	2.628	4.405	1.00	0.00	C
ATOM	1017	H	PHE A	72156.214	5.975	5.561	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.461	7.017	8.192	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.851	5.084	8.432	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.345	6.348	7.315	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.509	5.965	4.871	1.00	0.00	H
ATOM	1022	HD2	PHE A	72154.227	2.868	7.700	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.219	4.284	3.097	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.939	1.181	5.932	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.435	1.888	3.628	1.00	0.00	H
ATOM	1026	N	THR A	73156.221	4.676	9.294	1.00	0.00	N

ATOM	1027	CA	THR A	73157.093	3.690	9.923	1.00	0.00	C
ATOM	1028	C	THR A	73156.375	2.353	10.085	1.00	0.00	C
ATOM	1029	O	THR A	73155.407	2.245	10.838	1.00	0.00	O
ATOM	1030	CB	THR A	73157.569	4.194	11.287	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.769	5.596	11.260	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.861	3.554	11.744	1.00	0.00	C
ATOM	1033	H	THR A	73155.443	5.008	9.787	1.00	0.00	H
ATOM	1034	HA	THR A	73157.950	3.549	9.283	1.00	0.00	H
ATOM	1035	HB	THR A	73156.810	3.974	12.025	1.00	0.00	H
ATOM	1036	HG1	THR A	73158.374	5.820	10.549	1.00	0.00	H
ATOM	1037	1HG2	THR A	73158.644	2.615	12.232	1.00	0.00	H
ATOM	1038	2HG2	THR A	73159.362	4.213	12.438	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.498	3.378	10.890	1.00	0.00	H
ATOM	1040	N	CYS A	74156.856	1.339	9.374	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.259	0.010	9.438	1.00	0.00	C
ATOM	1042	C	CYS A	74157.337	-1.069	9.474	1.00	0.00	C
ATOM	1043	O	CYS A	74158.530	-0.770	9.420	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.333	-0.215	8.241	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.621	0.290	8.527	1.00	0.00	S
ATOM	1046	H	CYS A	74157.629	1.488	8.790	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.679	-0.049	10.346	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.705	0.347	7.398	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.329	-1.267	7.992	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.631	1.051	9.113	1.00	0.00	H
ATOM	1051	N	ALA A	75156.908	-2.324	9.562	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.836	-3.447	9.604	1.00	0.00	C
ATOM	1053	C	ALA A	75158.524	-3.641	8.257	1.00	0.00	C

ATOM	1054	O	ALA A	75158.192	-2.974	7.277	1.00	0.00	O
ATOM	1055	CB	ALA A	75157.108	-4.718	10.014	1.00	0.00	C
ATOM	1056	H	ALA A	75155.945	-2.498	9.601	1.00	0.00	H
ATOM	1057	HA	ALA A	75158.586	-3.232	10.352	1.00	0.00	H
ATOM	1058	1HB	ALA A	75156.868	-5.295	9.134	1.00	0.00	H
ATOM	1059	2HB	ALA A	75156.197	-4.459	10.535	1.00	0.00	H
ATOM	1060	3HB	ALA A	75157.741	-5.301	10.666	1.00	0.00	H
ATOM	1061	N	LEU A	76159.485	-4.558	8.216	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.222	-4.840	6.989	1.00	0.00	C
ATOM	1063	C	LEU A	76159.471	-5.846	6.123	1.00	0.00	C
ATOM	1064	O	LEU A	76158.917	-6.822	6.628	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.617	-5.374	7.317	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.644	-4.307	7.700	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.639	-4.860	8.709	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.367	-3.795	6.463	1.00	0.00	C
ATOM	1069	H	LEU A	76159.706	-5.056	9.031	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.320	-3.914	6.442	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.529	-6.070	8.139	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.988	-5.905	6.455	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.134	-3.472	8.159	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.261	-4.706	9.709	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76164.585	-4.352	8.600	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.777	-5.919	8.536	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76162.751	-3.963	5.592	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76164.302	-4.323	6.349	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.560	-2.739	6.570	1.00	0.00	H
ATOM	1080	N	LYS A	77159.456	-5.600	4.817	1.00	0.00	N

ATOM	1081	CA	LYS A	77158.773	-6.486	3.881	1.00	0.00 C
ATOM	1082	C	LYS A	77157.282	-6.563	4.193	1.00	0.00 C
ATOM	1083	O	LYS A	77156.676	-7.632	4.119	1.00	0.00 O
ATOM	1084	CB	LYS A	77159.390	-7.885	3.928	1.00	0.00 C
ATOM	1085	CG	LYS A	77160.875	-7.906	3.603	1.00	0.00 C
ATOM	1086	CD	LYS A	77161.118	-7.884	2.103	1.00	0.00 C
ATOM	1087	CE	LYS A	77162.543	-7.467	1.776	1.00	0.00 C
ATOM	1088	NZ	LYS A	77163.090	-8.220	0.614	1.00	0.00 N
ATOM	1089	H	LYS A	77159.916	-4.805	4.475	1.00	0.00 H
ATOM	1090	HA	LYS A	77158.900	-6.079	2.889	1.00	0.00 H
ATOM	1091	1HB	LYS A	77159.255	-8.293	4.918	1.00	0.00 H
ATOM	1092	2HB	LYS A	77158.879	-8.515	3.215	1.00	0.00 H
ATOM	1093	1HG	LYS A	77161.343	-7.040	4.047	1.00	0.00 H
ATOM	1094	2HG	LYS A	77161.311	-8.804	4.017	1.00	0.00 H
ATOM	1095	1HD	LYS A	77160.944	-8.872	1.705	1.00	0.00 H
ATOM	1096	2HD	LYS A	77160.434	-7.183	1.648	1.00	0.00 H
ATOM	1097	1HE	LYS A	77162.551	-6.412	1.544	1.00	0.00 H
ATOM	1098	2HE	LYS A	77163.166	-7.649	2.639	1.00	0.00 H
ATOM	1099	1HZ	LYS A	77162.550	-7.995	-0.246	1.00	0.00 H
ATOM	1100	2HZ	LYS A	77163.028	-9.244	0.790	1.00	0.00 H
ATOM	1101	3HZ	LYS A	77164.088	-7.967	0.461	1.00	0.00 H
ATOM	1102	N	LYS A	78156.696	-5.423	4.544	1.00	0.00 N
ATOM	1103	CA	LYS A	78155.275	-5.362	4.868	1.00	0.00 C
ATOM	1104	C	LYS A	78154.692	-4.001	4.500	1.00	0.00 C
ATOM	1105	O	LYS A	78153.843	-3.465	5.212	1.00	0.00 O
ATOM	1106	CB	LYS A	78155.058	-5.638	6.357	1.00	0.00 C
ATOM	1107	CG	LYS A	78155.577	-6.994	6.806	1.00	0.00 C

ATOM	1108	CD	LYS A	78155.301	-7.234	8.282	1.00	0.00 C
ATOM	1109	CE	LYS A	78154.066	-8.098	8.483	1.00	0.00 C
ATOM	1110	NZ	LYS A	78153.349	-7.755	9.743	1.00	0.00 N
ATOM	1111	H	LYS A	78157.232	-4.604	4.586	1.00	0.00 H
ATOM	1112	HA	LYS A	78154.772	-6.123	4.293	1.00	0.00 H
ATOM	1113	1HB	LYS A	78155.565	-4.875	6.930	1.00	0.00 H
ATOM	1114	2HB	LYS A	78154.001	-5.592	6.569	1.00	0.00 H
ATOM	1115	1HG	LYS A	78155.089	-7.764	6.228	1.00	0.00 H
ATOM	1116	2HG	LYS A	78156.643	-7.035	6.636	1.00	0.00 H
ATOM	1117	1HD	LYS A	78156.152	-7.734	8.720	1.00	0.00 H
ATOM	1118	2HD	LYS A	78155.148	-6.283	8.769	1.00	0.00 H
ATOM	1119	1HE	LYS A	78153.399	-7.950	7.649	1.00	0.00 H
ATOM	1120	2HE	LYS A	78154.369	-9.134	8.522	1.00	0.00 H
ATOM	1121	1HZ	LYS A	78152.922	-8.610	10.155	1.00	0.00 H
ATOM	1122	2HZ	LYS A	78152.597	-7.065	9.549	1.00	0.00 H
ATOM	1123	3HZ	LYS A	78154.012	-7.345	10.431	1.00	0.00 H
ATOM	1124	N	ALA A	79155.152	-3.448	3.382	1.00	0.00 N
ATOM	1125	CA	ALA A	79154.674	-2.151	2.920	1.00	0.00 C
ATOM	1126	C	ALA A	79154.599	-2.103	1.397	1.00	0.00 C
ATOM	1127	O	ALA A	79155.621	-2.002	0.719	1.00	0.00 O
ATOM	1128	CB	ALA A	79155.576	-1.041	3.440	1.00	0.00 C
ATOM	1129	H	ALA A	79155.828	-3.923	2.856	1.00	0.00 H
ATOM	1130	HA	ALA A	79153.684	-1.996	3.324	1.00	0.00 H
ATOM	1131	1HB	ALA A	79155.178	-0.659	4.369	1.00	0.00 H
ATOM	1132	2HB	ALA A	79155.621	-0.243	2.714	1.00	0.00 H
ATOM	1133	3HB	ALA A	79156.569	-1.432	3.607	1.00	0.00 H
ATOM	1134	N	LEU A	80153.382	-2.177	0.868	1.00	0.00 N

ATOM	1135	CA	LEU A	80153.172	-2.143	-0.576	1.00	0.00 C
ATOM	1136	C	LEU A	80152.306	-0.951	-0.970	1.00	0.00 C
ATOM	1137	O	LEU A	80151.157	-0.836	-0.541	1.00	0.00 O
ATOM	1138	CB	LEU A	80152.518	-3.443	-1.047	1.00	0.00 C
ATOM	1139	CG	LEU A	80152.189	-3.497	-2.540	1.00	0.00 C
ATOM	1140	CD1	LEU A	80153.449	-3.741	-3.356	1.00	0.00 C
ATOM	1141	CD2	LEU A	80151.155	-4.579	-2.817	1.00	0.00 C
ATOM	1142	H	LEU A	80152.606	-2.257	1.462	1.00	0.00 H
ATOM	1143	HA	LEU A	80154.137	-2.043	-1.049	1.00	0.00 H
ATOM	1144	1HB	LEU A	80153.185	-4.261	-0.816	1.00	0.00 H
ATOM	1145	2HB	LEU A	80151.601	-3.581	-0.494	1.00	0.00 H
ATOM	1146	HG	LEU A	80151.772	-2.549	-2.845	1.00	0.00 H
ATOM	1147	1HD1	LEU A	80153.391	-3.188	-4.282	1.00	0.00 H
ATOM	1148	2HD1	LEU A	80153.541	-4.794	-3.571	1.00	0.00 H
ATOM	1149	3HD1	LEU A	80154.311	-3.411	-2.794	1.00	0.00 H
ATOM	1150	1HD2	LEU A	80150.553	-4.292	-3.666	1.00	0.00 H
ATOM	1151	2HD2	LEU A	80150.522	-4.703	-1.951	1.00	0.00 H
ATOM	1152	3HD2	LEU A	80151.658	-5.511	-3.032	1.00	0.00 H
ATOM	1153	N	PHE A	81152.863	-0.066	-1.789	1.00	0.00 N
ATOM	1154	CA	PHE A	81152.142	1.118	-2.242	1.00	0.00 C
ATOM	1155	C	PHE A	81151.299	0.803	-3.473	1.00	0.00 C
ATOM	1156	O	PHE A	81151.736	0.083	-4.371	1.00	0.00 O
ATOM	1157	CB	PHE A	81153.123	2.249	-2.557	1.00	0.00 C
ATOM	1158	CG	PHE A	81153.763	2.847	-1.336	1.00	0.00 C
ATOM	1159	CD1	PHE A	81153.243	3.993	-0.757	1.00	0.00 C
ATOM	1160	CD2	PHE A	81154.883	2.260	-0.768	1.00	0.00 C
ATOM	1161	CE1	PHE A	81153.829	4.545	0.367	1.00	0.00 C

ATOM	1162	CE2	PHE A	81155.473	2.808	0.355	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.946	3.952	0.923	1.00	0.00	C
ATOM	1164	H	PHE A	81153.783	-0.212	-2.096	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.487	1.433	-1.443	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.910	1.868	-3.191	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.597	3.037	-3.077	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.370	4.457	-1.190	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.296	1.367	-1.212	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.416	5.439	0.809	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.346	2.343	0.788	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.407	4.381	1.802	1.00	0.00	H
ATOM	1173	N	VAL A	82150.087	1.347	-3.509	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.182	1.124	-4.631	1.00	0.00	C
ATOM	1175	C	VAL A	82148.297	2.342	-4.873	1.00	0.00	C
ATOM	1176	O	VAL A	82148.200	3.229	-4.027	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.288	-0.107	-4.394	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.115	-1.382	-4.425	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.539	0.021	-3.077	1.00	0.00	C
ATOM	1180	H	VAL A	82149.794	1.912	-2.764	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.780	0.945	-5.512	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.561	-0.158	-5.192	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82149.562	-1.499	-5.401	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.478	-2.230	-4.217	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.893	-1.325	-3.677	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.408	-0.959	-2.641	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.572	0.469	-3.254	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.106	0.644	-2.400	1.00	0.00	H

ATOM	1189	N	LYS A	83147.652	2.375	-6.035	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.774	3.484	-6.390	1.00	0.00	C
ATOM	1191	C	LYS A	83145.517	3.482	-5.528	1.00	0.00	C
ATOM	1192	O	LYS A	83144.750	2.518	-5.530	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.392	3.406	-7.870	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.588	3.405	-8.808	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.168	3.152	-10.247	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.976	3.993	-11.220	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.286	3.250	-12.472	1.00	0.00	N
ATOM	1198	H	LYS A	83147.770	1.637	-6.669	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.313	4.403	-6.216	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.830	2.498	-8.038	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.770	4.254	-8.115	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.078	4.366	-8.751	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.274	2.630	-8.501	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.318	2.108	-10.477	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.121	3.398	-10.354	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.410	4.879	-11.469	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.902	4.282	-10.744	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83149.234	3.508	-12.816	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.589	3.481	-13.207	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.261	2.226	-12.296	1.00	0.00	H
ATOM	1211	N	LEU A	84145.313	4.569	-4.792	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.151	4.700	-3.922	1.00	0.00	C
ATOM	1213	C	LEU A	84142.856	4.573	-4.719	1.00	0.00	C
ATOM	1214	O	LEU A	84141.863	4.038	-4.227	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.189	6.045	-3.194	1.00	0.00	C

ATOM	1216	CG	LEU A	84142.978	6.339	-2.308	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.141	5.682	-0.946	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.780	7.840	-2.158	1.00	0.00	C
ATOM	1219	H	LEU A	84145.962	5.301	-4.836	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.191	3.905	-3.193	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.075	6.071	-2.577	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.264	6.827	-3.934	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.091	5.928	-2.771	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.630	4.727	-1.063	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84142.169	5.537	-0.497	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.739	6.318	-0.309	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.894	8.030	-1.571	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.667	8.287	-3.134	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.639	8.268	-1.663	1.00	0.00	H
ATOM	1230	N	LYS A	85142.875	5.070	-5.951	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.701	5.014	-6.815	1.00	0.00	C
ATOM	1232	C	LYS A	85141.332	3.569	-7.138	1.00	0.00	C
ATOM	1233	O	LYS A	85140.173	3.263	-7.421	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.958	5.788	-8.109	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.098	5.223	-8.941	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.604	6.236	-9.955	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.941	5.817	-10.542	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.553	6.900	-11.362	1.00	0.00	N
ATOM	1239	H	LYS A	85143.696	5.486	-6.287	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.879	5.473	-6.289	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.060	5.770	-8.710	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.195	6.812	-7.862	1.00	0.00	H

ATOM	1243	1HG	LYS A	85143.910	4.952	-8.283	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.748	4.346	-9.465	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.882	6.323	-10.753	1.00	0.00	H
ATOM	1246	2HD	LYS A	85143.719	7.193	-9.466	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.613	5.567	-9.734	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.790	4.948	-11.165	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.891	7.666	-10.746	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.850	7.287	-12.023	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85146.356	6.526	-11.906	1.00	0.00	H
ATOM	1252	N	SER A	86142.322	2.682	-7.094	1.00	0.00	N
ATOM	1253	CA	SER A	86142.098	1.271	-7.381	1.00	0.00	C
ATOM	1254	C	SER A	86142.057	0.453	-6.095	1.00	0.00	C
ATOM	1255	O	SER A	86142.443	-0.716	-6.079	1.00	0.00	O
ATOM	1256	CB	SER A	86143.194	0.737	-8.305	1.00	0.00	C
ATOM	1257	OG	SER A	86143.269	1.496	-9.499	1.00	0.00	O
ATOM	1258	H	SER A	86143.225	2.984	-6.862	1.00	0.00	H
ATOM	1259	HA	SER A	86141.144	1.182	-7.881	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.146	0.792	-7.799	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.980	-0.290	-8.558	1.00	0.00	H
ATOM	1262	HG	SER A	86142.385	1.639	-9.845	1.00	0.00	H
ATOM	1263	N	CYS A	87141.587	1.075	-5.018	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.496	0.404	-3.726	1.00	0.00	C
ATOM	1265	C	CYS A	87140.043	0.114	-3.366	1.00	0.00	C
ATOM	1266	O	CYS A	87139.125	0.737	-3.901	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.143	1.260	-2.637	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.948	1.167	-2.600	1.00	0.00	S
ATOM	1269	H	CYS A	87141.296	2.007	-5.094	1.00	0.00	H

ATOM	1270	HA	CYS A	87142.029	-0.532	-3.801	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.871	2.293	-2.792	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.777	0.938	-1.673	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.265	1.809	-1.959	1.00	0.00	H
ATOM	1274	N	ARG A	88139.840	-0.834	-2.458	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.497	-1.205	-2.028	1.00	0.00	C
ATOM	1276	C	ARG A	88138.413	-1.271	-0.503	1.00	0.00	C
ATOM	1277	O	ARG A	88139.296	-1.826	0.151	1.00	0.00	O
ATOM	1278	CB	ARG A	88138.102	-2.555	-2.631	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.308	-2.435	-3.921	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.810	-2.459	-3.658	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.049	-1.912	-4.778	1.00	0.00	N
ATOM	1282	CZ	ARG A	88133.789	-1.490	-4.682	1.00	0.00	C
ATOM	1283	NH1	ARG A	88133.148	-1.550	-3.522	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.171	-1.005	-5.749	1.00	0.00	N
ATOM	1285	H	ARG A	88140.612	-1.296	-2.068	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.816	-0.449	-2.386	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.998	-3.121	-2.836	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.502	-3.096	-1.914	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.563	-1.504	-4.405	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.564	-3.262	-4.568	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.504	-3.481	-3.491	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.604	-1.873	-2.773	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.498	-1.856	-5.647	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.608	-1.915	-2.713	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88132.203	-1.231	-3.456	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.649	-0.958	-6.626	1.00	0.00	H

ATOM	1297	2HH2	ARG A	88132.225	-0.688	-5.678	1.00	0.00	H
ATOM	1298	N	PRO A	89137.344	-0.704	0.089	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.157	-0.707	1.544	1.00	0.00	C
ATOM	1300	C	PRO A	89137.223	-2.113	2.132	1.00	0.00	C
ATOM	1301	O	PRO A	89136.564	-3.031	1.646	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.757	-0.117	1.729	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.519	0.693	0.503	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.239	-0.019	-0.608	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.884	-0.079	2.037	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.037	-0.916	1.822	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.737	0.498	2.617	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.461	0.740	0.294	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.922	1.686	0.635	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.584	-0.732	-1.086	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.619	0.691	-1.326	1.00	0.00	H
ATOM	1312	N	ASP A	90138.021	-2.273	3.183	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.172	-3.568	3.838	1.00	0.00	C
ATOM	1314	C	ASP A	90137.378	-3.612	5.140	1.00	0.00	C
ATOM	1315	O	ASP A	90137.759	-2.992	6.133	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.648	-3.854	4.116	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.948	-5.339	4.174	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.366	-5.819	5.248	1.00	0.00	O
ATOM	1319	OD2	ASP A	90139.764	-6.022	3.144	1.00	0.00	O
ATOM	1320	H	ASP A	90138.520	-1.503	3.526	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.787	-4.323	3.170	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.247	-3.414	3.333	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.921	-3.412	5.063	1.00	0.00	H

ATOM	1324	N	SER A	91136.274	-4.352	5.129	1.00	0.00 N
ATOM	1325	CA	SER A	91135.426	-4.478	6.310	1.00	0.00 C
ATOM	1326	C	SER A	91135.724	-5.774	7.057	1.00	0.00 C
ATOM	1327	O	SER A	91134.840	-6.355	7.688	1.00	0.00 O
ATOM	1328	CB	SER A	91133.950	-4.434	5.911	1.00	0.00 C
ATOM	1329	OG	SER A	91133.158	-3.879	6.947	1.00	0.00 O
ATOM	1330	H	SER A	91136.023	-4.823	4.308	1.00	0.00 H
ATOM	1331	HA	SER A	91135.639	-3.644	6.961	1.00	0.00 H
ATOM	1332	1HB	SER A	91133.837	-3.827	5.024	1.00	0.00 H
ATOM	1333	2HB	SER A	91133.605	-5.436	5.708	1.00	0.00 H
ATOM	1334	HG	SER A	91132.243	-3.834	6.660	1.00	0.00 H
ATOM	1335	N	ARG A	92136.972	-6.223	6.981	1.00	0.00 N
ATOM	1336	CA	ARG A	92137.384	-7.451	7.650	1.00	0.00 C
ATOM	1337	C	ARG A	92137.327	-7.291	9.166	1.00	0.00 C
ATOM	1338	O	ARG A	92137.085	-8.254	9.893	1.00	0.00 O
ATOM	1339	CB	ARG A	92138.798	-7.842	7.220	1.00	0.00 C
ATOM	1340	CG	ARG A	92138.835	-8.741	5.995	1.00	0.00 C
ATOM	1341	CD	ARG A	92140.147	-9.503	5.902	1.00	0.00 C
ATOM	1342	NE	ARG A	92140.288	-10.485	6.976	1.00	0.00 N
ATOM	1343	CZ	ARG A	92139.667	-11.663	6.989	1.00	0.00 C
ATOM	1344	NH1	ARG A	92138.865	-12.010	5.991	1.00	0.00 N
ATOM	1345	NH2	ARG A	92139.851	-12.496	8.004	1.00	0.00 N
ATOM	1346	H	ARG A	92137.632	-5.717	6.462	1.00	0.00 H
ATOM	1347	HA	ARG A	92136.700	-8.234	7.358	1.00	0.00 H
ATOM	1348	1HB	ARG A	92139.355	-6.944	6.997	1.00	0.00 H
ATOM	1349	2HB	ARG A	92139.281	-8.361	8.035	1.00	0.00 H
ATOM	1350	1HG	ARG A	92138.022	-9.450	6.056	1.00	0.00 H

ATOM	1351	2HG	ARG A	92138.719	-8.133	5.109	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.185	-10.016	4.953	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.963	-8.798	5.962	1.00	0.00	H
ATOM	1354	HE	ARG A	92140.875	-10.253	7.725	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92138.722	-11.386	5.223	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92138.403	-12.896	6.007	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92140.455	-12.240	8.758	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92139.385	-13.381	8.014	1.00	0.00	H
ATOM	1359	N	PHE A	93137.554	-6.068	9.637	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.528	-5.782	11.067	1.00	0.00	C
ATOM	1361	C	PHE A	93136.525	-4.678	11.385	1.00	0.00	C
ATOM	1362	O	PHE A	93136.707	-3.917	12.335	1.00	0.00	O
ATOM	1363	CB	PHE A	93138.921	-5.377	11.551	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.888	-6.524	11.626	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.464	-6.884	12.834	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.221	-7.243	10.489	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.354	-7.938	12.907	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.111	-8.298	10.555	1.00	0.00	C
ATOM	1369	CZ	PHE A	93141.677	-8.646	11.765	1.00	0.00	C
ATOM	1370	H	PHE A	93137.741	-5.341	9.007	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.227	-6.684	11.579	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.330	-4.642	10.874	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.839	-4.945	12.537	1.00	0.00	H
ATOM	1374	HD1	PHE A	93140.212	-6.330	13.727	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.778	-6.971	9.543	1.00	0.00	H
ATOM	1376	HE1	PHE A	93141.796	-8.208	13.854	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.361	-8.850	9.662	1.00	0.00	H

ATOM	1378	HZ	PHE A	93142.373	-9.471	11.820	1.00	0.00	H
ATOM	1379	N	ALA A	94135.467	-4.596	10.586	1.00	0.00	N
ATOM	1380	CA	ALA A	94134.436	-3.584	10.785	1.00	0.00	C
ATOM	1381	C	ALA A	94133.274	-4.138	11.602	1.00	0.00	C
ATOM	1382	O	ALA A	94132.658	-5.136	11.227	1.00	0.00	O
ATOM	1383	CB	ALA A	94133.940	-3.064	-9.444	1.00	0.00	C
ATOM	1384	H	ALA A	94135.376	-5.231	9.844	1.00	0.00	H
ATOM	1385	HA	ALA A	94134.879	-2.759	11.322	1.00	0.00	H
ATOM	1386	1HB	ALA A	94133.035	-3.584	9.169	1.00	0.00	H
ATOM	1387	2HB	ALA A	94134.696	-3.235	8.691	1.00	0.00	H
ATOM	1388	3HB	ALA A	94133.739	-2.007	9.520	1.00	0.00	H
ATOM	1389	N	SER A	95132.980	-3.485	12.721	1.00	0.00	N
ATOM	1390	CA	SER A	95131.891	-3.913	13.593	1.00	0.00	C
ATOM	1391	C	SER A	95130.740	-2.913	13.557	1.00	0.00	C
ATOM	1392	O	SER A	95130.944	-1.724	13.314	1.00	0.00	O
ATOM	1393	CB	SER A	95132.394	-4.078	15.028	1.00	0.00	C
ATOM	1394	OG	SER A	95131.383	-4.612	15.865	1.00	0.00	O
ATOM	1395	H	SER A	95133.508	-2.696	12.967	1.00	0.00	H
ATOM	1396	HA	SER A	95131.535	-4.867	13.234	1.00	0.00	H
ATOM	1397	1HB	SER A	95133.240	-4.748	15.035	1.00	0.00	H
ATOM	1398	2HB	SER A	95132.695	-3.115	15.415	1.00	0.00	H
ATOM	1399	HG	SER A	95131.061	-5.436	15.493	1.00	0.00	H
ATOM	1400	N	LEU A	96129.529	-3.404	13.802	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.344	-2.554	13.798	1.00	0.00	C
ATOM	1402	C	LEU A	96127.403	-2.931	14.938	1.00	0.00	C
ATOM	1403	O	LEU A	96126.670	-3.916	14.852	1.00	0.00	O
ATOM	1404	CB	LEU A	96127.616	-2.665	12.456	1.00	0.00	C

ATOM	1405	CG	LEU A	96127.763	-1.451	11.537	1.00	0.00	C
ATOM	1406	CD1	LEU A	96129.230	-1.182	11.239	1.00	0.00	C
ATOM	1407	CD2	LEU A	96126.985	-1.664	10.247	1.00	0.00	C
ATOM	1408	H	LEU A	96129.430	-4.361	13.989	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.669	-1.534	13.938	1.00	0.00	H
ATOM	1410	1HB	LEU A	96127.996	-3.533	11.936	1.00	0.00	H
ATOM	1411	2HB	LEU A	96126.564	-2.816	12.649	1.00	0.00	H
ATOM	1412	HG	LEU A	96127.358	-0.581	12.034	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96129.616	-0.468	11.952	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96129.327	-0.782	10.241	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96129.788	-2.103	11.315	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96125.972	-1.959	10.481	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96127.460	-2.438	9.663	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96126.969	-0.743	9.681	1.00	0.00	H
ATOM	1419	N	GLN A	97127.429	-2.139	16.006	1.00	0.00	N
ATOM	1420	CA	GLN A	97126.577	-2.389	17.163	1.00	0.00	C
ATOM	1421	C	GLN A	97126.881	-3.753	17.778	1.00	0.00	C
ATOM	1422	O	GLN A	97126.251	-4.753	17.433	1.00	0.00	O
ATOM	1423	CB	GLN A	97125.102	-2.314	16.763	1.00	0.00	C
ATOM	1424	CG	GLN A	97124.743	-1.048	16.001	1.00	0.00	C
ATOM	1425	CD	GLN A	97124.686	0.175	16.897	1.00	0.00	C
ATOM	1426	OE1	GLN A	97123.756	0.338	17.686	1.00	0.00	O
ATOM	1427	NE2	GLN A	97125.684	1.041	16.778	1.00	0.00	N
ATOM	1428	H	GLN A	97128.035	-1.369	16.015	1.00	0.00	H
ATOM	1429	HA	GLN A	97126.782	-1.623	17.896	1.00	0.00	H
ATOM	1430	1HB	GLN A	97124.867	-3.162	16.139	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.497	-2.355	17.656	1.00	0.00	H

ATOM	1432	1HG	GLN A	97125.485	-0.880	15.236	1.00	0.00	H
ATOM	1433	2HG	GLN A	97123.775	-1.184	15.540	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97126.392	0.846	16.128	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97125.673	1.841	17.345	1.00	0.00	H
ATOM	1436	N	PRO A	98127.854	-3.812	18.702	1.00	0.00	N
ATOM	1437	CA	PRO A	98128.239	-5.063	19.366	1.00	0.00	C
ATOM	1438	C	PRO A	98127.043	-5.789	19.971	1.00	0.00	C
ATOM	1439	O	PRO A	98127.044	-7.014	20.094	1.00	0.00	O
ATOM	1440	CB	PRO A	98129.197	-4.602	20.467	1.00	0.00	C
ATOM	1441	CG	PRO A	98129.755	-3.315	19.969	1.00	0.00	C
ATOM	1442	CD	PRO A	98128.656	-2.668	19.173	1.00	0.00	C
ATOM	1443	HA	PRO A	98128.755	-5.726	18.689	1.00	0.00	H
ATOM	1444	1HB	PRO A	98128.652	-4.467	21.389	1.00	0.00	H
ATOM	1445	2HB	PRO A	98129.973	-5.341	20.605	1.00	0.00	H
ATOM	1446	1HG	PRO A	98130.034	-2.688	20.803	1.00	0.00	H
ATOM	1447	2HG	PRO A	98130.611	-3.505	19.338	1.00	0.00	H
ATOM	1448	1HD	PRO A	98128.067	-2.017	19.803	1.00	0.00	H
ATOM	1449	2HD	PRO A	98129.067	-2.117	18.340	1.00	0.00	H
ATOM	1450	N	SER A	99126.021	-5.025	20.346	1.00	0.00	N
ATOM	1451	CA	SER A	99124.818	-5.596	20.940	1.00	0.00	C
ATOM	1452	C	SER A	99123.564	-4.983	20.323	1.00	0.00	C
ATOM	1453	O	SER A	99123.584	-3.845	19.855	1.00	0.00	O
ATOM	1454	CB	SER A	99124.815	-5.377	22.453	1.00	0.00	C
ATOM	1455	OG	SER A	99125.417	-6.469	23.127	1.00	0.00	O
ATOM	1456	H	SER A	99126.079	-4.054	20.222	1.00	0.00	H
ATOM	1457	HA	SER A	99124.820	-6.657	20.738	1.00	0.00	H
ATOM	1458	1HB	SER A	99125.367	-4.479	22.686	1.00	0.00	H

ATOM	1459	2HB	SER A	99123.797	-5.273	22.798	1.00	0.00	H
ATOM	1460	HG	SER A	99124.734	-7.021	23.516	1.00	0.00	H
ATOM	1461	N	GLY A	100122.475	-5.744	20.327	1.00	0.00	N
ATOM	1462	CA	GLY A	100121.229	-5.258	19.766	1.00	0.00	C
ATOM	1463	C	GLY A	100120.594	-4.171	20.614	1.00	0.00	C
ATOM	1464	O	GLY A	100120.434	-3.039	20.157	1.00	0.00	O
ATOM	1465	H	GLY A	100122.518	-6.644	20.714	1.00	0.00	H
ATOM	1466	1HA	GLY A	100121.420	-4.864	18.779	1.00	0.00	H
ATOM	1467	2HA	GLY A	100120.537	-6.085	19.685	1.00	0.00	H
ATOM	1468	N	PRO A	101120.221	-4.486	21.866	1.00	0.00	N
ATOM	1469	CA	PRO A	101119.600	-3.515	22.773	1.00	0.00	C
ATOM	1470	C	PRO A	101120.582	-2.443	23.233	1.00	0.00	C
ATOM	1471	O	PRO A	101121.475	-2.709	24.038	1.00	0.00	O
ATOM	1472	CB	PRO A	101119.150	-4.372	23.959	1.00	0.00	C
ATOM	1473	CG	PRO A	101120.062	-5.549	23.942	1.00	0.00	C
ATOM	1474	CD	PRO A	101120.374	-5.812	22.495	1.00	0.00	C
ATOM	1475	HA	PRO A	101118.741	-3.043	22.319	1.00	0.00	H
ATOM	1476	1HB	PRO A	101119.249	-3.806	24.873	1.00	0.00	H
ATOM	1477	2HB	PRO A	101118.121	-4.669	23.821	1.00	0.00	H
ATOM	1478	1HG	PRO A	101120.966	-5.320	24.485	1.00	0.00	H
ATOM	1479	2HG	PRO A	101119.566	-6.403	24.379	1.00	0.00	H
ATOM	1480	1HD	PRO A	101121.386	-6.175	22.387	1.00	0.00	H
ATOM	1481	2HD	PRO A	101119.671	-6.518	22.079	1.00	0.00	H
ATOM	1482	N	SER A	102120.410	-1.230	22.718	1.00	0.00	N
ATOM	1483	CA	SER A	102121.282	-0.117	23.077	1.00	0.00	C
ATOM	1484	C	SER A	102120.786	0.576	24.341	1.00	0.00	C
ATOM	1485	O	SER A	102121.581	1.051	25.153	1.00	0.00	O

ATOM	1486	CB	SER A 102	121.358	0.889	21.926	1.00	0.00	C
ATOM	1487	OG	SER A 102	120.064	1.307	21.527	1.00	0.00	O
ATOM	1488	H	SER A 102	119.679	-1.080	22.081	1.00	0.00	H
ATOM	1489	HA	SER A 102	122.268	-0.515	23.261	1.00	0.00	H
ATOM	1490	1HB	SER A 102	121.918	1.755	22.245	1.00	0.00	H
ATOM	1491	2HB	SER A 102	121.851	0.430	21.082	1.00	0.00	H
ATOM	1492	HG	SER A 102	119.966	2.248	21.690	1.00	0.00	H
ATOM	1493	N	SER A 103	119.468	0.630	24.503	1.00	0.00	N
ATOM	1494	CA	SER A 103	118.867	1.265	25.670	1.00	0.00	C
ATOM	1495	C	SER A 103	119.270	0.543	26.952	1.00	0.00	C
ATOM	1496	O	SER A 103	118.782	-0.550	27.240	1.00	0.00	O
ATOM	1497	CB	SER A 103	117.343	1.283	25.539	1.00	0.00	C
ATOM	1498	OG	SER A 103	116.799	2.484	26.058	1.00	0.00	O
ATOM	1499	H	SER A 103	118.886	0.234	23.821	1.00	0.00	H
ATOM	1500	HA	SER A 103	119.226	2.282	25.716	1.00	0.00	H
ATOM	1501	1HB	SER A 103	117.073	1.202	24.497	1.00	0.00	H
ATOM	1502	2HB	SER A 103	116.927	0.448	26.083	1.00	0.00	H
ATOM	1503	HG	SER A 103	116.312	2.293	26.864	1.00	0.00	H
ATOM	1504	N	GLY A 104	120.165	1.160	27.717	1.00	0.00	N
ATOM	1505	CA	GLY A 104	120.618	0.561	28.957	1.00	0.00	C
ATOM	1506	C	GLY A 104	119.539	0.545	30.022	1.00	0.00	C
ATOM	1507	O	GLY A 104	119.748	-0.103	31.070	1.00	0.00	O
ATOM	1508	OXT	GLY A 104	118.485	1.179	29.809	1.00	0.00	O
ATOM	1509	H	GLY A 104	120.520	2.029	27.436	1.00	0.00	H
ATOM	1510	1HA	GLY A 104	120.930	-0.455	28.762	1.00	0.00	H
ATOM	1511	2HA	GLY A 104	121.464	1.121	29.327	1.00	0.00	H
TER	1512	GLY A 104							

ENDMDL

Three-Dimensional Structure Coordinate Table 2

ATOM 1	N	GLY A	1105.215	7.354	-0.195	1.00	0.00	N
ATOM 2	CA	GLY A	1106.288	6.361	-0.481	1.00	0.00	C
ATOM 3	C	GLY A	1107.290	6.250	0.651	1.00	0.00	C
ATOM 4	O	GLY A	1107.077	6.795	1.734	1.00	0.00	O
ATOM 5	1H	GLY A	1105.533	8.026	0.533	1.00	0.00	H
ATOM 6	2H	GLY A	1104.360	6.869	0.147	1.00	0.00	H
ATOM 7	3H	GLY A	1104.976	7.882	-1.060	1.00	0.00	H
ATOM 8	1HA	GLY A	1105.834	5.395	-0.642	1.00	0.00	H
ATOM 9	2HA	GLY A	1106.807	6.659	-1.380	1.00	0.00	H
ATOM10	N	SER A	2108.386	5.542	0.400	1.00	0.00	N
ATOM11	CA	SER A	2109.426	5.360	1.405	1.00	0.00	C
ATOM12	C	SER A	2110.256	6.629	1.565	1.00	0.00	C
ATOM13	O	SER A	2110.259	7.496	0.691	1.00	0.00	O
ATOM14	CB	SER A	2110.332	4.187	1.026	1.00	0.00	C
ATOM15	OG	SER A	2109.867	2.977	1.597	1.00	0.00	O
ATOM16	H	SER A	2108.498	5.132	-0.484	1.00	0.00	H
ATOM17	HA	SER A	2108.942	5.140	2.346	1.00	0.00	H
ATOM18	1HB	SER A	2110.348	4.080	-0.048	1.00	0.00	H
ATOM19	2HB	SER A	2111.334	4.379	1.384	1.00	0.00	H
ATOM20	HG	SER A	2110.095	2.955	2.530	1.00	0.00	H
ATOM21	N	SER A	3110.962	6.731	2.687	1.00	0.00	N
ATOM22	CA	SER A	3111.797	7.894	2.960	1.00	0.00	C
ATOM23	C	SER A	3113.078	7.853	2.131	1.00	0.00	C
ATOM24	O	SER A	3113.500	8.866	1.573	1.00	0.00	O

ATOM25	CB	SER A	3112.142	7.961	4.450	1.00	0.00	C
ATOM26	OG	SER A	3113.199	7.072	4.769	1.00	0.00	O
ATOM27	H	SER A	3110.920	6.008	3.346	1.00	0.00	H
ATOM28	HA	SER A	3111.237	8.777	2.690	1.00	0.00	H
ATOM29	1HB	SER A	3112.447	8.967	4.702	1.00	0.00	H
ATOM30	2HB	SER A	3111.272	7.692	5.031	1.00	0.00	H
ATOM31	HG	SER A	3112.849	6.184	4.872	1.00	0.00	H
ATOM32	N	GLY A	4113.690	6.676	2.056	1.00	0.00	N
ATOM33	CA	GLY A	4114.915	6.525	1.294	1.00	0.00	C
ATOM34	C	GLY A	4116.155	6.661	2.156	1.00	0.00	C
ATOM35	O	GLY A	4116.173	7.435	3.112	1.00	0.00	O
ATOM36	H	GLY A	4113.307	5.904	2.523	1.00	0.00	H
ATOM37	1HA	GLY A	4114.918	5.550	0.828	1.00	0.00	H
ATOM38	2HA	GLY A	4114.941	7.280	0.523	1.00	0.00	H
ATOM39	N	SER A	5117.194	5.905	1.817	1.00	0.00	N
ATOM40	CA	SER A	5118.444	5.943	2.567	1.00	0.00	C
ATOM41	C	SER A	5119.548	5.197	1.823	1.00	0.00	C
ATOM42	O	SER A	5119.739	3.997	2.018	1.00	0.00	O
ATOM43	CB	SER A	5118.248	5.336	3.957	1.00	0.00	C
ATOM44	OG	SER A	5117.949	3.954	3.871	1.00	0.00	O
ATOM45	H	SER A	5117.119	5.306	1.044	1.00	0.00	H
ATOM46	HA	SER A	5118.734	6.978	2.673	1.00	0.00	H
ATOM47	1HB	SER A	5119.154	5.461	4.533	1.00	0.00	H
ATOM48	2HB	SER A	5117.433	5.839	4.455	1.00	0.00	H
ATOM49	HG	SER A	5117.186	3.826	3.304	1.00	0.00	H
ATOM50	N	SER A	6120.271	5.917	0.971	1.00	0.00	N
ATOM51	CA	SER A	6121.355	5.322	0.198	1.00	0.00	C

ATOM52	C	SER A	6122.687	5.469	0.929	1.00	0.00	C
ATOM53	O	SER A	6123.365	6.489	0.805	1.00	0.00	O
ATOM54	CB	SER A	6121.443	5.975	-1.182	1.00	0.00	C
ATOM55	OG	SER A	6120.178	5.990	-1.821	1.00	0.00	O
ATOM56	H	SER A	6120.070	6.869	0.859	1.00	0.00	H
ATOM57	HA	SER A	6121.140	4.271	0.077	1.00	0.00	H
ATOM58	1HB	SER A	6121.790	6.992	-1.076	1.00	0.00	H
ATOM59	2HB	SER A	6122.137	5.420	-1.796	1.00	0.00	H
ATOM60	HG	SER A	6119.653	6.716	-1.475	1.00	0.00	H
ATOM61	N	GLY A	7123.055	4.444	1.688	1.00	0.00	N
ATOM62	CA	GLY A	7124.304	4.477	2.428	1.00	0.00	C
ATOM63	C	GLY A	7125.284	3.418	1.960	1.00	0.00	C
ATOM64	O	GLY A	7126.040	2.867	2.760	1.00	0.00	O
ATOM65	H	GLY A	7122.474	3.656	1.750	1.00	0.00	H
ATOM66	1HA	GLY A	7124.757	5.450	2.304	1.00	0.00	H
ATOM67	2HA	GLY A	7124.095	4.321	3.475	1.00	0.00	H
ATOM68	N	LEU A	8125.269	3.134	0.662	1.00	0.00	N
ATOM69	CA	LEU A	8126.163	2.134	0.089	1.00	0.00	C
ATOM70	C	LEU A	8127.308	2.798	-0.668	1.00	0.00	C
ATOM71	O	LEU A	8128.424	2.279	-0.705	1.00	0.00	O
ATOM72	CB	LEU A	8125.389	1.205	-0.847	1.00	0.00	C
ATOM73	CG	LEU A	8124.503	0.173	-0.148	1.00	0.00	C
ATOM74	CD1	LEU A	8123.307	-0.182	-1.018	1.00	0.00	C
ATOM75	CD2	LEU A	8125.306	-1.075	0.192	1.00	0.00	C
ATOM76	H	LEU A	8124.644	3.608	0.076	1.00	0.00	H
ATOM77	HA	LEU A	8126.573	1.553	0.901	1.00	0.00	H
ATOM78	1HB	LEU A	8124.763	1.811	-1.486	1.00	0.00	H

ATOM79	2HB	LEU A	8126.099	0.676	-1.465	1.00	0.00	H	
ATOM80	HG	LEU A	8124.130	0.594	0.775	1.00	0.00	H	
ATOM81	1HD1	LEU A	8122.467	-0.437	-0.390	1.00	0.00	H	
ATOM82	2HD1	LEU A	8123.557	-1.026	-1.646	1.00	0.00	H	
ATOM83	3HD1	LEU A	8123.050	0.664	-1.638	1.00	0.00	H	
ATOM84	1HD2	LEU A	8124.669	-1.943	0.118	1.00	0.00	H	
ATOM85	2HD2	LEU A	8125.689	-0.992	1.198	1.00	0.00	H	
ATOM86	3HD2	LEU A	8126.129	-1.171	-0.500	1.00	0.00	H	
ATOM87	N	ALAA	9127.025	3.949	-1.271	1.00	0.00	N	
ATOM88	CA	ALAA	9128.032	4.684	-2.027	1.00	0.00	C	
ATOM89	C	ALAA	9128.353	6.018	-1.362	1.00	0.00	C	
ATOM90	O	ALAA	9127.467	6.685	-0.828	1.00	0.00	O	
ATOM91	CB	ALAA	9127.559	4.904	-3.456	1.00	0.00	C	
ATOM92	H	ALAA	9126.117	4.312	-1.204	1.00	0.00	H	
ATOM93	HA	ALAA	9128.930	4.083	-2.058	1.00	0.00	H	
ATOM94	1HB	ALAA	9126.948	4.070	-3.766	1.00	0.00	H	
ATOM95	2HB	ALAA	9128.415	4.986	-4.110	1.00	0.00	H	
ATOM96	3HB	ALAA	9126.979	5.813	-3.507	1.00	0.00	H	
ATOM97	N	META	10129.625	6.399	-1.399	1.00	0.00	N	
ATOM98	CA	META	10130.064	7.654	-0.799	1.00	0.00	C	
ATOM99	C	META	10131.140	8.320	-1.656	1.00	0.00	C	
ATOM	100	O	META	10132.329	8.052	-1.490	1.00	0.00	O
ATOM	101	CB	META	10130.601	7.410	0.612	1.00	0.00	C
ATOM	102	CG	META	10129.515	7.117	1.634	1.00	0.00	C
ATOM	103	SD	META	10130.052	5.956	2.905	1.00	0.00	S
ATOM	104	CE	META	10128.479	5.283	3.435	1.00	0.00	C
ATOM	105	H	META	10130.285	5.823	-1.839	1.00	0.00	H

ATOM	106	HA	MET A	10129.209	8.311	-0.740	1.00	0.00	H
ATOM	107	1HB	MET A	10131.277	6.568	0.586	1.00	0.00	H
ATOM	108	2HB	MET A	10131.144	8.286	0.935	1.00	0.00	H
ATOM	109	1HG	MET A	10129.229	8.043	2.110	1.00	0.00	H
ATOM	110	2HG	MET A	10128.661	6.699	1.121	1.00	0.00	H
ATOM	111	1HE	MET A	10127.696	6.001	3.239	1.00	0.00	H
ATOM	112	2HE	MET A	10128.516	5.071	4.493	1.00	0.00	H
ATOM	113	3HE	MET A	10128.277	4.371	2.892	1.00	0.00	H
ATOM	114	N	PRO A	11130.733	9.201	-2.588	1.00	0.00	N
ATOM	115	CA	PRO A	11131.672	9.903	-3.467	1.00	0.00	C
ATOM	116	C	PRO A	11132.708	10.710	-2.687	1.00	0.00	C
ATOM	117	O	PRO A	11133.901	10.639	-2.976	1.00	0.00	O
ATOM	118	CB	PRO A	11130.781	10.836	-4.295	1.00	0.00	C
ATOM	119	CG	PRO A	11129.406	10.270	-4.185	1.00	0.00	C
ATOM	120	CD	PRO A	11129.335	9.581	-2.851	1.00	0.00	C
ATOM	121	HA	PRO A	11132.181	9.214	-4.125	1.00	0.00	H
ATOM	122	1HB	PRO A	11130.831	11.836	-3.892	1.00	0.00	H
ATOM	123	2HB	PRO A	11131.120	10.841	-5.321	1.00	0.00	H
ATOM	124	1HG	PRO A	11128.680	11.066	-4.229	1.00	0.00	H
ATOM	125	2HG	PRO A	11129.236	9.561	-4.981	1.00	0.00	H
ATOM	126	1HD	PRO A	11128.971	10.260	-2.095	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.704	8.707	-2.911	1.00	0.00	H
ATOM	128	N	PRO A	12132.269	11.487	-1.678	1.00	0.00	N
ATOM	129	CA	PRO A	12133.179	12.297	-0.861	1.00	0.00	C
ATOM	130	C	PRO A	12134.284	11.455	-0.232	1.00	0.00	C
ATOM	131	O	PRO A	12135.340	11.970	0.133	1.00	0.00	O
ATOM	132	CB	PRO A	12132.272	12.882	0.225	1.00	0.00	C

ATOM	133	CG	PRO A	12130.903	12.847	-0.360	1.00	0.00	C
ATOM	134	CD	PRO A	12130.866	11.636	-1.249	1.00	0.00	C
ATOM	135	HA	PRO A	12133.622	13.096	-1.437	1.00	0.00	H
ATOM	136	1HB	PRO A	12132.336	12.276	1.117	1.00	0.00	H
ATOM	137	2HB	PRO A	12132.579	13.893	0.447	1.00	0.00	H
ATOM	138	1HG	PRO A	12130.170	12.758	0.426	1.00	0.00	H
ATOM	139	2HG	PRO A	12130.728	13.741	-0.940	1.00	0.00	H
ATOM	140	1HD	PRO A	12130.539	10.770	-0.691	1.00	0.00	H
ATOM	141	2HD	PRO A	12130.219	11.809	-2.094	1.00	0.00	H
ATOM	142	N	GLY A	13134.030	10.155	-0.108	1.00	0.00	N
ATOM	143	CA	GLY A	13135.012	9.261	0.477	1.00	0.00	C
ATOM	144	C	GLY A	13135.208	7.999	-0.339	1.00	0.00	C
ATOM	145	O	GLY A	13135.145	6.891	0.193	1.00	0.00	O
ATOM	146	H	GLY A	13133.170	9.800	-0.417	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.957	9.779	0.552	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.686	8.986	1.470	1.00	0.00	H
ATOM	149	N	ASN A	14135.447	8.169	-1.638	1.00	0.00	N
ATOM	150	CA	ASN A	14135.654	7.038	-2.536	1.00	0.00	C
ATOM	151	C	ASN A	14134.405	6.163	-2.612	1.00	0.00	C
ATOM	152	O	ASN A	14133.628	6.256	-3.562	1.00	0.00	O
ATOM	153	CB	ASN A	14136.854	6.205	-2.078	1.00	0.00	C
ATOM	154	CG	ASN A	14138.169	6.936	-2.265	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.694	7.023	-3.375	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.711	7.466	-1.173	1.00	0.00	N
ATOM	157	H	ASN A	14135.485	9.078	-2.000	1.00	0.00	H
ATOM	158	HA	ASN A	14135.858	7.433	-3.520	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.742	5.965	-1.032	1.00	0.00	H

ATOM	160	2HB	ASN A	14136.888	5.290	-2.652	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.237	7.357	-0.322	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.561	7.945	-1.264	1.00	0.00	H
ATOM	163	N	SER A	15134.219	5.312	-1.607	1.00	0.00	N
ATOM	164	CA	SER A	15133.065	4.422	-1.564	1.00	0.00	C
ATOM	165	C	SER A	15132.542	4.276	-0.139	1.00	0.00	C
ATOM	166	O	SER A	15131.340	4.379	0.107	1.00	0.00	O
ATOM	167	CB	SER A	15133.432	3.048	-2.127	1.00	0.00	C
ATOM	168	OG	SER A	15132.293	2.391	-2.653	1.00	0.00	O
ATOM	169	H	SER A	15134.872	5.282	-0.878	1.00	0.00	H
ATOM	170	HA	SER A	15132.289	4.856	-2.176	1.00	0.00	H
ATOM	171	1HB	SER A	15134.159	3.167	-2.917	1.00	0.00	H
ATOM	172	2HB	SER A	15133.853	2.439	-1.340	1.00	0.00	H
ATOM	173	HG	SER A	15131.783	3.007	-3.183	1.00	0.00	H
ATOM	174	N	HIS A	16133.453	4.036	0.799	1.00	0.00	N
ATOM	175	CA	HIS A	16133.084	3.876	2.201	1.00	0.00	C
ATOM	176	C	HIS A	16133.923	4.787	3.092	1.00	0.00	C
ATOM	177	O	HIS A	16133.400	5.454	3.984	1.00	0.00	O
ATOM	178	CB	HIS A	16133.259	2.420	2.633	1.00	0.00	C
ATOM	179	CG	HIS A	16132.025	1.591	2.457	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.474	0.835	3.472	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.232	1.401	1.377	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.397	0.216	3.023	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.227	0.543	1.755	1.00	0.00	N
ATOM	184	H	HIS A	16134.396	3.965	0.542	1.00	0.00	H
ATOM	185	HA	HIS A	16132.045	4.150	2.304	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.047	1.970	2.047	1.00	0.00	H

ATOM	187	2HB	HIS A	16133.534	2.391	3.678	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.822	0.763	4.385	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.363	1.841	0.399	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.763	-0.444	3.596	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.457	0.291	1.205	1.00	0.00	H
ATOM	192	N	GLY A	17135.229	4.809	2.843	1.00	0.00	N
ATOM	193	CA	GLY A	17136.120	5.641	3.630	1.00	0.00	C
ATOM	194	C	GLY A	17137.532	5.092	3.679	1.00	0.00	C
ATOM	195	O	GLY A	17138.032	4.742	4.748	1.00	0.00	O
ATOM	196	H	GLY A	17135.589	4.257	2.119	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.145	6.631	3.200	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.736	5.707	4.637	1.00	0.00	H
ATOM	199	N	LEU A	18138.175	5.015	2.519	1.00	0.00	N
ATOM	200	CA	LEU A	18139.539	4.503	2.434	1.00	0.00	C
ATOM	201	C	LEU A	18140.547	5.574	2.836	1.00	0.00	C
ATOM	202	O	LEU A	18140.918	6.426	2.029	1.00	0.00	O
ATOM	203	CB	LEU A	18139.833	4.014	1.015	1.00	0.00	C
ATOM	204	CG	LEU A	18138.730	3.165	0.380	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.853	3.178	-1.136	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.786	1.740	0.909	1.00	0.00	C
ATOM	207	H	LEU A	18137.723	5.308	1.701	1.00	0.00	H
ATOM	208	HA	LEU A	18139.623	3.672	3.116	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.002	4.877	0.387	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.739	3.426	1.040	1.00	0.00	H
ATOM	211	HG	LEU A	18137.769	3.583	0.641	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.875	2.973	-1.416	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.564	4.149	-1.512	1.00	0.00	H

ATOM	214	3HD1	LEU A	18138.205	2.423	-1.556	1.00	0.00	H
ATOM	215	1HD2	LEU A	18137.874	1.224	0.648	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.895	1.758	1.983	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.629	1.226	0.470	1.00	0.00	H
ATOM	218	N	GLU A	19140.988	5.523	4.088	1.00	0.00	N
ATOM	219	CA	GLU A	19141.956	6.488	4.598	1.00	0.00	C
ATOM	220	C	GLU A	19143.006	5.799	5.464	1.00	0.00	C
ATOM	221	O	GLU A	19142.962	4.585	5.662	1.00	0.00	O
ATOM	222	CB	GLU A	19141.246	7.576	5.405	1.00	0.00	C
ATOM	223	CG	GLU A	19140.290	7.030	6.453	1.00	0.00	C
ATOM	224	CD	GLU A	19140.046	8.008	7.586	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.639	7.561	8.679	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.261	9.220	7.380	1.00	0.00	O
ATOM	227	H	GLU A	19140.656	4.819	4.684	1.00	0.00	H
ATOM	228	HA	GLU A	19142.447	6.944	3.751	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.989	8.180	5.907	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.683	8.202	4.728	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.345	6.807	5.981	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.708	6.122	6.864	1.00	0.00	H
ATOM	233	N	VAL A	20143.949	6.582	5.978	1.00	0.00	N
ATOM	234	CA	VAL A	20145.009	6.047	6.822	1.00	0.00	C
ATOM	235	C	VAL A	20144.435	5.407	8.082	1.00	0.00	C
ATOM	236	O	VAL A	20143.542	5.963	8.722	1.00	0.00	O
ATOM	237	CB	VAL A	20146.013	7.144	7.229	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.191	6.540	7.979	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.489	7.914	6.004	1.00	0.00	C
ATOM	240	H	VAL A	20143.931	7.543	5.783	1.00	0.00	H

ATOM	241	HA	VAL A	20145.539	5.294	6.257	1.00	0.00	H
ATOM	242	HB	VAL A	20145.512	7.835	7.889	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.488	5.618	7.501	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.903	6.341	9.000	1.00	0.00	H
ATOM	245	3HG1	VAL A	20148.019	7.235	7.967	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.486	7.592	5.743	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.498	8.971	6.226	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.821	7.726	5.177	1.00	0.00	H
ATOM	249	N	GLY A	21144.954	4.234	8.432	1.00	0.00	N
ATOM	250	CA	GLY A	21144.482	3.538	9.615	1.00	0.00	C
ATOM	251	C	GLY A	21143.450	2.476	9.287	1.00	0.00	C
ATOM	252	O	GLY A	21143.375	1.447	9.959	1.00	0.00	O
ATOM	253	H	GLY A	21145.665	3.840	7.885	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.323	3.069	10.104	1.00	0.00	H
ATOM	255	2HA	GLY A	21144.039	4.256	10.290	1.00	0.00	H
ATOM	256	N	SER A	22142.655	2.725	8.253	1.00	0.00	N
ATOM	257	CA	SER A	22141.623	1.781	7.837	1.00	0.00	C
ATOM	258	C	SER A	22142.196	0.728	6.895	1.00	0.00	C
ATOM	259	O	SER A	22143.138	0.996	6.147	1.00	0.00	O
ATOM	260	CB	SER A	22140.471	2.521	7.154	1.00	0.00	C
ATOM	261	OG	SER A	22140.308	3.821	7.694	1.00	0.00	O
ATOM	262	H	SER A	22142.764	3.562	7.756	1.00	0.00	H
ATOM	263	HA	SER A	22141.249	1.289	8.722	1.00	0.00	H
ATOM	264	1HB	SER A	22140.678	2.607	6.098	1.00	0.00	H
ATOM	265	2HB	SER A	22139.556	1.967	7.298	1.00	0.00	H
ATOM	266	HG	SER A	22140.349	3.777	8.653	1.00	0.00	H
ATOM	267	N	LEU A	23141.624	-0.470	6.936	1.00	0.00	N

ATOM	268	CA	LEU A	23142.078	-1.564	6.086	1.00	0.00 C
ATOM	269	C	LEU A	23141.426	-1.492	4.709	1.00	0.00 C
ATOM	270	O	LEU A	23140.229	-1.231	4.590	1.00	0.00 O
ATOM	271	CB	LEU A	23141.763	-2.911	6.740	1.00	0.00 C
ATOM	272	CG	LEU A	23142.577	-3.225	7.997	1.00	0.00 C
ATOM	273	CD1	LEU A	23141.779	-4.108	8.943	1.00	0.00 C
ATOM	274	CD2	LEU A	23143.893	-3.892	7.624	1.00	0.00 C
ATOM	275	H	LEU A	23140.877	-0.622	7.552	1.00	0.00 H
ATOM	276	HA	LEU A	23143.148	-1.472	5.970	1.00	0.00 H
ATOM	277	1HB	LEU A	23140.716	-2.923	7.003	1.00	0.00 H
ATOM	278	2HB	LEU A	23141.945	-3.691	6.017	1.00	0.00 H
ATOM	279	HG	LEU A	23142.803	-2.303	8.512	1.00	0.00 H
ATOM	280	1HD1	LEU A	23141.062	-4.686	8.378	1.00	0.00 H
ATOM	281	2HD1	LEU A	23141.259	-3.490	9.659	1.00	0.00 H
ATOM	282	3HD1	LEU A	23142.449	-4.777	9.464	1.00	0.00 H
ATOM	283	1HD2	LEU A	23143.706	-4.908	7.309	1.00	0.00 H
ATOM	284	2HD2	LEU A	23144.550	-3.897	8.481	1.00	0.00 H
ATOM	285	3HD2	LEU A	23144.359	-3.345	6.818	1.00	0.00 H
ATOM	286	N	ALA A	24142.222	-1.725	3.670	1.00	0.00 N
ATOM	287	CA	ALA A	24141.724	-1.686	2.301	1.00	0.00 C
ATOM	288	C	ALA A	24142.324	-2.812	1.466	1.00	0.00 C
ATOM	289	O	ALA A	24143.420	-3.294	1.751	1.00	0.00 O
ATOM	290	CB	ALA A	24142.028	-0.337	1.667	1.00	0.00 C
ATOM	291	H	ALA A	24143.168	-1.928	3.829	1.00	0.00 H
ATOM	292	HA	ALA A	24140.651	-1.808	2.334	1.00	0.00 H
ATOM	293	1HB	ALA A	24141.196	0.333	1.830	1.00	0.00 H
ATOM	294	2HB	ALA A	24142.184	-0.464	0.606	1.00	0.00 H

ATOM	295	3HB	ALA A	24142.919	0.079	2.115	1.00	0.00	H
ATOM	296	N	GLU A	25141.598	-3.227	0.433	1.00	0.00	N
ATOM	297	CA	GLU A	25142.059	-4.299	-0.445	1.00	0.00	C
ATOM	298	C	GLU A	25142.225	-3.797	-1.876	1.00	0.00	C
ATOM	299	O	GLU A	25141.447	-2.968	-2.348	1.00	0.00	O
ATOM	300	CB	GLU A	25141.075	-5.470	-0.414	1.00	0.00	C
ATOM	301	CG	GLU A	25141.514	-6.654	-1.260	1.00	0.00	C
ATOM	302	CD	GLU A	25140.767	-6.737	-2.578	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.490	-5.674	-3.170	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.461	-7.865	-3.017	1.00	0.00	O
ATOM	305	H	GLU A	25140.732	-2.805	0.256	1.00	0.00	H
ATOM	306	HA	GLU A	25143.017	-4.636	-0.081	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.965	-5.805	0.607	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.117	-5.130	-0.778	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.569	-6.561	-1.469	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.335	-7.563	-0.704	1.00	0.00	H
ATOM	311	N	VAL A	26143.244	-4.305	-2.560	1.00	0.00	N
ATOM	312	CA	VAL A	26143.513	-3.909	-3.937	1.00	0.00	C
ATOM	313	C	VAL A	26142.949	-4.926	-4.922	1.00	0.00	C
ATOM	314	O	VAL A	26142.719	-6.084	-4.571	1.00	0.00	O
ATOM	315	CB	VAL A	26145.024	-3.751	-4.191	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.275	-3.136	-5.559	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.665	-2.911	-3.097	1.00	0.00	C
ATOM	318	H	VAL A	26143.830	-4.962	-2.129	1.00	0.00	H
ATOM	319	HA	VAL A	26143.039	-2.953	-4.109	1.00	0.00	H
ATOM	320	HB	VAL A	26145.477	-4.731	-4.173	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.222	-2.616	-5.553	1.00	0.00	H

ATOM	322	2HG1 VAL A	26144.484	-2.439	-5.792	1.00	0.00	H
ATOM	323	3HG1 VAL A	26145.299	-3.917	-6.305	1.00	0.00	H
ATOM	324	1HG2 VAL A	26145.381	-1.876	-3.223	1.00	0.00	H
ATOM	325	2HG2 VAL A	26146.740	-2.998	-3.157	1.00	0.00	H
ATOM	326	3HG2 VAL A	26145.330	-3.260	-2.131	1.00	0.00	H
ATOM	327	N LYS A	27142.727	-4.487	-6.157	1.00	0.00	N
ATOM	328	CA LYS A	27142.188	-5.360	-7.194	1.00	0.00	C
ATOM	329	C LYS A	27143.310	-5.966	-8.031	1.00	0.00	C
ATOM	330	O LYS A	27143.259	-5.951	-9.262	1.00	0.00	O
ATOM	331	CB LYS A	27141.223	-4.583	-8.092	1.00	0.00	C
ATOM	332	CG LYS A	27139.924	-4.202	-7.403	1.00	0.00	C
ATOM	333	CD LYS A	27139.048	-5.419	-7.154	1.00	0.00	C
ATOM	334	CE LYS A	27137.646	-5.018	-6.724	1.00	0.00	C
ATOM	335	NZ LYS A	27137.102	-5.932	-5.682	1.00	0.00	N
ATOM	336	H LYS A	27142.930	-3.554	-6.376	1.00	0.00	H
ATOM	337	HA LYS A	27141.648	-6.158	-6.706	1.00	0.00	H
ATOM	338	1HB LYS A	27141.710	-3.677	-8.424	1.00	0.00	H
ATOM	339	2HB LYS A	27140.985	-5.190	-8.954	1.00	0.00	H
ATOM	340	1HG LYS A	27140.152	-3.735	-6.457	1.00	0.00	H
ATOM	341	2HG LYS A	27139.387	-3.504	-8.030	1.00	0.00	H
ATOM	342	1HD LYS A	27138.983	-5.995	-8.065	1.00	0.00	H
ATOM	343	2HD LYS A	27139.496	-6.019	-6.376	1.00	0.00	H
ATOM	344	1HE LYS A	27137.678	-4.014	-6.327	1.00	0.00	H
ATOM	345	2HE LYS A	27136.998	-5.043	-7.587	1.00	0.00	H
ATOM	346	1HZ LYS A	27136.733	-6.799	-6.124	1.00	0.00	H
ATOM	347	2HZ LYS A	27136.331	-5.466	-5.163	1.00	0.00	H
ATOM	348	3HZ LYS A	27137.851	-6.192	-5.007	1.00	0.00	H

ATOM	349	N	GLU A	28144.323	-6.501	-7.357	1.00	0.00	N
ATOM	350	CA	GLU A	28145.457	-7.112	-8.038	1.00	0.00	C
ATOM	351	C	GLU A	28145.269	-8.622	-8.160	1.00	0.00	C
ATOM	352	O	GLU A	28144.303	-9.181	-7.640	1.00	0.00	O
ATOM	353	CB	GLU A	28146.756	-6.806	-7.288	1.00	0.00	C
ATOM	354	CG	GLU A	28147.863	-6.272	-8.182	1.00	0.00	C
ATOM	355	CD	GLU A	28149.224	-6.837	-7.824	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.635	-7.835	-8.452	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.878	-6.281	-6.917	1.00	0.00	O
ATOM	358	H	GLU A	28144.307	-6.483	-6.377	1.00	0.00	H
ATOM	359	HA	GLU A	28145.516	-6.688	-9.029	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.552	-6.068	-6.526	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.110	-7.711	-6.814	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.640	-6.533	-9.205	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.899	-5.197	-8.085	1.00	0.00	H
ATOM	364	N	ASN A	29146.199	-9.275	-8.850	1.00	0.00	N
ATOM	365	CA	ASN A	29146.136	-10.719	-9.040	1.00	0.00	C
ATOM	366	C	ASN A	29146.156	-11.446	-7.697	1.00	0.00	C
ATOM	367	O	ASN A	29145.239	-12.204	-7.381	1.00	0.00	O
ATOM	368	CB	ASN A	29147.306	-11.191	-9.907	1.00	0.00	C
ATOM	369	CG	ASN A	29146.930	-11.306	-11.371	1.00	0.00	C
ATOM	370	OD1	ASN A	29146.786	-12.407	-11.903	1.00	0.00	O
ATOM	371	ND2	ASN A	29146.767	-10.165	-12.032	1.00	0.00	N
ATOM	372	H	ASN A	29146.944	-8.773	-9.240	1.00	0.00	H
ATOM	373	HA	ASN A	29145.211	-10.947	-9.546	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.119	-10.486	-9.819	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.635	-12.160	-9.561	1.00	0.00	H

ATOM	376	1HD2 ASN A	29146.898	-9.325	-11.543	1.00	0.00	H
ATOM	377	2HD2 ASN A	29146.524	-10.210	-12.979	1.00	0.00	H
ATOM	378	N PRO A	30147.206	-11.226	-6.887	1.00	0.00	N
ATOM	379	CA PRO A	30147.337	-11.863	-5.575	1.00	0.00	C
ATOM	380	C PRO A	30146.420	-11.233	-4.529	1.00	0.00	C
ATOM	381	O PRO A	30146.641	-10.098	-4.105	1.00	0.00	O
ATOM	382	CB PRO A	30148.802	-11.621	-5.217	1.00	0.00	C
ATOM	383	CG PRO A	30149.156	-10.354	-5.917	1.00	0.00	C
ATOM	384	CD PRO A	30148.346	-10.336	-7.187	1.00	0.00	C
ATOM	385	HA PRO A	30147.149	-12.925	-5.631	1.00	0.00	H
ATOM	386	1HB PRO A	30148.902	-11.522	-4.145	1.00	0.00	H
ATOM	387	2HB PRO A	30149.404	-12.446	-5.567	1.00	0.00	H
ATOM	388	1HG PRO A	30148.897	-9.508	-5.296	1.00	0.00	H
ATOM	389	2HG PRO A	30150.211	-10.344	-6.145	1.00	0.00	H
ATOM	390	1HD PRO A	30148.006	-9.335	-7.401	1.00	0.00	H
ATOM	391	2HD PRO A	30148.927	-10.721	-8.009	1.00	0.00	H
ATOM	392	N PRO A	31145.373	-11.959	-4.095	1.00	0.00	N
ATOM	393	CA PRO A	31144.428	-11.455	-3.094	1.00	0.00	C
ATOM	394	C PRO A	31145.065	-11.310	-1.717	1.00	0.00	C
ATOM	395	O PRO A	31144.943	-12.193	-0.869	1.00	0.00	O
ATOM	396	CB PRO A	31143.331	-12.523	-3.065	1.00	0.00	C
ATOM	397	CG PRO A	31143.999	-13.765	-3.541	1.00	0.00	C
ATOM	398	CD PRO A	31145.028	-13.322	-4.543	1.00	0.00	C
ATOM	399	HA PRO A	31144.003	-10.507	-3.393	1.00	0.00	H
ATOM	400	1HB PRO A	31142.960	-12.634	-2.057	1.00	0.00	H
ATOM	401	2HB PRO A	31142.524	-12.233	-3.721	1.00	0.00	H
ATOM	402	1HG PRO A	31144.474	-14.268	-2.712	1.00	0.00	H

ATOM	403	2HG	PRO A	31143.276	-14.415	-4.011	1.00	0.00	H
ATOM	404	1HD	PRO A	31145.892	-13.969	-4.508	1.00	0.00	H
ATOM	405	2HD	PRO A	31144.607	-13.306	-5.536	1.00	0.00	H
ATOM	406	N	PHE A	32145.746	-10.189	-1.501	1.00	0.00	N
ATOM	407	CA	PHE A	32146.404	-9.928	-0.226	1.00	0.00	C
ATOM	408	C	PHE A	32145.573	-8.975	0.628	1.00	0.00	C
ATOM	409	O	PHE A	32144.568	-8.432	0.172	1.00	0.00	O
ATOM	410	CB	PHE A	32147.798	-9.342	-0.457	1.00	0.00	C
ATOM	411	CG	PHE A	32147.825	-8.245	-1.484	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.160	-7.051	-1.259	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.516	-8.409	-2.674	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.184	-6.040	-2.201	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.543	-7.402	-3.620	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.875	-6.216	-3.383	1.00	0.00	C
ATOM	417	H	PHE A	32145.807	-9.522	-2.217	1.00	0.00	H
ATOM	418	HA	PHE A	32146.501	-10.868	0.295	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.168	-8.935	0.471	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.460	-10.127	-0.791	1.00	0.00	H
ATOM	421	HD1	PHE A	32146.618	-6.912	-0.335	1.00	0.00	H
ATOM	422	HD2	PHE A	32149.038	-9.336	-2.860	1.00	0.00	H
ATOM	423	HE1	PHE A	32146.660	-5.114	-2.014	1.00	0.00	H
ATOM	424	HE2	PHE A	32149.085	-7.543	-4.543	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.895	-5.428	-4.122	1.00	0.00	H
ATOM	426	N	TYR A	33146.003	-8.777	1.870	1.00	0.00	N
ATOM	427	CA	TYR A	33145.297	-7.889	2.789	1.00	0.00	C
ATOM	428	C	TYR A	33146.273	-6.965	3.508	1.00	0.00	C
ATOM	429	O	TYR A	33147.259	-7.417	4.092	1.00	0.00	O

ATOM	430	CB	TYR A	33144.502	-8.706	3.809	1.00	0.00	C
ATOM	431	CG	TYR A	33143.206	-9.261	3.263	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.351	-8.466	2.509	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.838	-10.579	3.501	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.165	-8.970	2.008	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.655	-11.090	3.002	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.822	-10.282	2.257	1.00	0.00	C
ATOM	437	OH	TYR A	33139.643	-10.787	1.759	1.00	0.00	O
ATOM	438	H	TYR A	33146.811	-9.238	2.178	1.00	0.00	H
ATOM	439	HA	TYR A	33144.613	-7.289	2.208	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.104	-9.537	4.143	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.264	-8.077	4.655	1.00	0.00	H
ATOM	442	HD1	TYR A	33142.623	-7.439	2.316	1.00	0.00	H
ATOM	443	HD2	TYR A	33143.492	-11.209	4.086	1.00	0.00	H
ATOM	444	HE1	TYR A	33140.515	-8.336	1.424	1.00	0.00	H
ATOM	445	HE2	TYR A	33141.386	-12.117	3.198	1.00	0.00	H
ATOM	446	HH	TYR A	33139.504	-10.457	0.869	1.00	0.00	H
ATOM	447	N	GLY A	34145.993	-5.666	3.463	1.00	0.00	N
ATOM	448	CA	GLY A	34146.856	-4.698	4.115	1.00	0.00	C
ATOM	449	C	GLY A	34146.086	-3.512	4.663	1.00	0.00	C
ATOM	450	O	GLY A	34144.877	-3.403	4.464	1.00	0.00	O
ATOM	451	H	GLY A	34145.194	-5.363	2.983	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.374	-5.184	4.928	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.583	-4.342	3.400	1.00	0.00	H
ATOM	454	N	VAL A	35146.789	-2.622	5.357	1.00	0.00	N
ATOM	455	CA	VAL A	35146.165	-1.439	5.937	1.00	0.00	C
ATOM	456	C	VAL A	35146.791	-0.162	5.382	1.00	0.00	C

ATOM	457	O	VAL A	35147.999	-0.097	5.159	1.00	0.00	O
ATOM	458	CB	VAL A	35146.287	-1.437	7.474	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.746	-1.405	7.899	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.523	-0.263	8.071	1.00	0.00	C
ATOM	461	H	VAL A	35147.751	-2.766	5.482	1.00	0.00	H
ATOM	462	HA	VAL A	35145.116	-1.455	5.679	1.00	0.00	H
ATOM	463	HB	VAL A	35145.847	-2.350	7.849	1.00	0.00	H
ATOM	464	1HG1	VAL A	35148.023	-0.395	8.165	1.00	0.00	H
ATOM	465	2HG1	VAL A	35148.367	-1.745	7.084	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.888	-2.052	8.752	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.502	-0.284	7.721	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.989	0.662	7.765	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.537	-0.335	9.148	1.00	0.00	H
ATOM	470	N	ILE A	36145.958	0.852	5.164	1.00	0.00	N
ATOM	471	CA	ILE A	36146.430	2.126	4.637	1.00	0.00	C
ATOM	472	C	ILE A	36147.393	2.798	5.611	1.00	0.00	C
ATOM	473	O	ILE A	36147.154	2.821	6.819	1.00	0.00	O
ATOM	474	CB	ILE A	36145.259	3.085	4.344	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.203	2.391	3.480	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.765	4.346	3.658	1.00	0.00	C
ATOM	477	CD1	ILE A	36143.021	3.272	3.144	1.00	0.00	C
ATOM	478	H	ILE A	36145.006	0.739	5.363	1.00	0.00	H
ATOM	479	HA	ILE A	36146.950	1.932	3.710	1.00	0.00	H
ATOM	480	HB	ILE A	36144.813	3.371	5.284	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.657	2.077	2.552	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.832	1.522	4.005	1.00	0.00	H
ATOM	483	1HG2	ILE A	36144.985	5.093	3.655	1.00	0.00	H

ATOM	484	2HG2	ILE A	36146.045	4.115	2.640	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.625	4.726	4.190	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.302	4.309	3.253	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.203	3.047	3.812	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.713	3.089	2.125	1.00	0.00	H
ATOM	489	N	ARG A	37148.482	3.342	5.078	1.00	0.00	N
ATOM	490	CA	ARG A	37149.482	4.013	5.901	1.00	0.00	C
ATOM	491	C	ARG A	37149.654	5.467	5.474	1.00	0.00	C
ATOM	492	O	ARG A	37149.380	6.387	6.245	1.00	0.00	O
ATOM	493	CB	ARG A	37150.821	3.279	5.811	1.00	0.00	C
ATOM	494	CG	ARG A	37150.720	1.790	6.099	1.00	0.00	C
ATOM	495	CD	ARG A	37150.093	1.526	7.458	1.00	0.00	C
ATOM	496	NE	ARG A	37150.689	2.353	8.506	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.129	2.558	9.696	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.963	1.999	9.993	1.00	0.00	N
ATOM	499	NH2	ARG A	37150.737	3.323	10.591	1.00	0.00	N
ATOM	500	H	ARG A	37148.617	3.291	4.109	1.00	0.00	H
ATOM	501	HA	ARG A	37149.138	3.991	6.924	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.221	3.405	4.816	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.507	3.716	6.522	1.00	0.00	H
ATOM	504	1HG	ARG A	37150.112	1.327	5.337	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.712	1.362	6.079	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.036	1.741	7.401	1.00	0.00	H
ATOM	507	2HD	ARG A	37150.235	0.486	7.710	1.00	0.00	H
ATOM	508	HE	ARG A	37151.550	2.778	8.311	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.498	1.422	9.322	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.547	2.158	10.889	1.00	0.00	H

ATOM	511	1HH2 ARG A	37151.617	3.746	10.372	1.00	0.00	H
ATOM	512	2HH2 ARG A	37150.318	3.477	11.485	1.00	0.00	H
ATOM	513	N TRP A	38150.112	5.667	4.242	1.00	0.00	N
ATOM	514	CA TRP A	38150.321	7.011	3.714	1.00	0.00	C
ATOM	515	C TRP A	38149.551	7.213	2.412	1.00	0.00	C
ATOM	516	O TRP A	38149.601	6.374	1.511	1.00	0.00	O
ATOM	517	CB TRP A	38151.814	7.269	3.486	1.00	0.00	C
ATOM	518	CG TRP A	38152.095	8.525	2.714	1.00	0.00	C
ATOM	519	CD1 TRP A	38152.313	9.772	3.226	1.00	0.00	C
ATOM	520	CD2 TRP A	38152.181	8.655	1.290	1.00	0.00	C
ATOM	521	NE1 TRP A	38152.531	10.669	2.207	1.00	0.00	N
ATOM	522	CE2 TRP A	38152.455	10.006	1.009	1.00	0.00	C
ATOM	523	CE3 TRP A	38152.055	7.758	0.225	1.00	0.00	C
ATOM	524	CZ2 TRP A	38152.603	10.481	-0.292	1.00	0.00	C
ATOM	525	CZ3 TRP A	38152.202	8.230	-1.066	1.00	0.00	C
ATOM	526	CH2 TRP A	38152.474	9.581	-1.315	1.00	0.00	C
ATOM	527	H TRP A	38150.313	4.895	3.674	1.00	0.00	H
ATOM	528	HA TRP A	38149.952	7.715	4.446	1.00	0.00	H
ATOM	529	1HB TRP A	38152.309	7.350	4.443	1.00	0.00	H
ATOM	530	2HB TRP A	38152.236	6.439	2.938	1.00	0.00	H
ATOM	531	HD1 TRP A	38152.312	10.006	4.280	1.00	0.00	H
ATOM	532	HE1 TRP A	38152.711	11.625	2.319	1.00	0.00	H
ATOM	533	HE3 TRP A	38151.845	6.713	0.397	1.00	0.00	H
ATOM	534	HZ2 TRP A	38152.809	11.521	-0.501	1.00	0.00	H
ATOM	535	HZ3 TRP A	38152.108	7.552	-1.900	1.00	0.00	H
ATOM	536	HH2 TRP A	38152.582	9.906	-2.340	1.00	0.00	H
ATOM	537	N ILE A	39148.850	8.337	2.318	1.00	0.00	N

ATOM	538	CA	ILE A	39148.078	8.664	1.126	1.00	0.00 C
ATOM	539	C	ILE A	39148.492	10.024	0.575	1.00	0.00 C
ATOM	540	O	ILE A	39148.159	11.062	1.146	1.00	0.00 O
ATOM	541	CB	ILE A	39146.566	8.679	1.420	1.00	0.00 C
ATOM	542	CG1	ILE A	39146.151	7.396	2.143	1.00	0.00 C
ATOM	543	CG2	ILE A	39145.777	8.844	0.129	1.00	0.00 C
ATOM	544	CD1	ILE A	39144.691	7.371	2.539	1.00	0.00 C
ATOM	545	H	ILE A	39148.859	8.968	3.067	1.00	0.00 H
ATOM	546	HA	ILE A	39148.275	7.907	0.380	1.00	0.00 H
ATOM	547	HB	ILE A	39146.353	9.526	2.053	1.00	0.00 H
ATOM	548	1HG1	ILE A	39146.334	6.551	1.496	1.00	0.00 H
ATOM	549	2HG1	ILE A	39146.742	7.290	3.041	1.00	0.00 H
ATOM	550	1HG2	ILE A	39144.765	8.499	0.279	1.00	0.00 H
ATOM	551	2HG2	ILE A	39146.242	8.264	-0.654	1.00	0.00 H
ATOM	552	3HG2	ILE A	39145.764	9.886	-0.154	1.00	0.00 H
ATOM	553	1HD1	ILE A	39144.182	8.211	2.090	1.00	0.00 H
ATOM	554	2HD1	ILE A	39144.608	7.431	3.614	1.00	0.00 H
ATOM	555	3HD1	ILE A	39144.241	6.451	2.194	1.00	0.00 H
ATOM	556	N	GLY A	40149.226	10.012	-0.532	1.00	0.00 N
ATOM	557	CA	GLY A	40149.678	11.253	-1.131	1.00	0.00 C
ATOM	558	C	GLY A	40150.185	11.072	-2.546	1.00	0.00 C
ATOM	559	O	GLY A	40150.020	10.007	-3.142	1.00	0.00 O
ATOM	560	H	GLY A	40149.467	9.155	-0.943	1.00	0.00 H
ATOM	561	1HA	GLY A	40148.858	11.955	-1.141	1.00	0.00 H
ATOM	562	2HA	GLY A	40150.474	11.659	-0.526	1.00	0.00 H
ATOM	563	N	GLN A	41150.799	12.118	-3.087	1.00	0.00 N
ATOM	564	CA	GLN A	41151.332	12.082	-4.441	1.00	0.00 C

ATOM	565	C	GLN A	41152.794	12.528	-4.460	1.00	0.00 C
ATOM	566	O	GLN A	41153.100	13.680	-4.154	1.00	0.00 O
ATOM	567	CB	GLN A	41150.498	12.981	-5.353	1.00	0.00 C
ATOM	568	CG	GLN A	41149.001	12.756	-5.223	1.00	0.00 C
ATOM	569	CD	GLN A	41148.213	14.050	-5.269	1.00	0.00 C
ATOM	570	OE1	GLN A	41148.200	14.818	-4.307	1.00	0.00 O
ATOM	571	NE2	GLN A	41147.549	14.296	-6.391	1.00	0.00 N
ATOM	572	H	GLN A	41150.896	12.939	-2.561	1.00	0.00 H
ATOM	573	HA	GLN A	41151.268	11.065	-4.798	1.00	0.00 H
ATOM	574	1HB	GLN A	41150.707	14.011	-5.111	1.00	0.00 H
ATOM	575	2HB	GLN A	41150.782	12.797	-6.377	1.00	0.00 H
ATOM	576	1HG	GLN A	41148.673	12.124	-6.034	1.00	0.00 H
ATOM	577	2HG	GLN A	41148.803	12.265	-4.282	1.00	0.00 H
ATOM	578	1HE2	GLN A	41147.606	13.638	-7.115	1.00	0.00 H
ATOM	579	2HE2	GLN A	41147.032	15.126	-6.451	1.00	0.00 H
ATOM	580	N	PRO A	42153.720	11.620	-4.817	1.00	0.00 N
ATOM	581	CA	PRO A	42155.153	11.933	-4.868	1.00	0.00 C
ATOM	582	C	PRO A	42155.457	13.100	-5.803	1.00	0.00 C
ATOM	583	O	PRO A	42154.658	13.428	-6.681	1.00	0.00 O
ATOM	584	CB	PRO A	42155.789	10.645	-5.399	1.00	0.00 C
ATOM	585	CG	PRO A	42154.802	9.575	-5.083	1.00	0.00 C
ATOM	586	CD	PRO A	42153.453	10.221	-5.197	1.00	0.00 C
ATOM	587	HA	PRO A	42155.544	12.152	-3.885	1.00	0.00 H
ATOM	588	1HB	PRO A	42155.950	10.733	-6.465	1.00	0.00 H
ATOM	589	2HB	PRO A	42156.731	10.472	-4.900	1.00	0.00 H
ATOM	590	1HG	PRO A	42154.894	8.767	-5.794	1.00	0.00 H
ATOM	591	2HG	PRO A	42154.961	9.213	-4.078	1.00	0.00 H

ATOM	592	1HD	PRO A	42153.088	10.159	-6.213	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.754	9.763	-4.513	1.00	0.00	H
ATOM	594	N	PRO A	43156.621	13.746	-5.625	1.00	0.00	N
ATOM	595	CA	PRO A	43157.028	14.881	-6.457	1.00	0.00	C
ATOM	596	C	PRO A	43157.418	14.454	-7.866	1.00	0.00	C
ATOM	597	O	PRO A	43158.590	14.200	-8.146	1.00	0.00	O
ATOM	598	CB	PRO A	43158.241	15.445	-5.719	1.00	0.00	C
ATOM	599	CG	PRO A	43158.803	14.285	-4.973	1.00	0.00	C
ATOM	600	CD	PRO A	43157.630	13.420	-4.600	1.00	0.00	C
ATOM	601	HA	PRO A	43156.254	15.632	-6.510	1.00	0.00	H
ATOM	602	1HB	PRO A	43158.948	15.836	-6.435	1.00	0.00	H
ATOM	603	2HB	PRO A	43157.926	16.230	-5.048	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.487	13.738	-5.607	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.311	14.631	-4.085	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.903	12.376	-4.647	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.273	13.673	-3.614	1.00	0.00	H
ATOM	608	N	GLY A	44156.432	14.379	-8.752	1.00	0.00	N
ATOM	609	CA	GLY A	44156.696	13.984	-10.122	1.00	0.00	C
ATOM	610	C	GLY A	44155.463	13.450	-10.820	1.00	0.00	C
ATOM	611	O	GLY A	44155.131	13.883	-11.924	1.00	0.00	O
ATOM	612	H	GLY A	44155.517	14.595	-8.473	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.062	14.839	-10.667	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.457	13.216	-10.121	1.00	0.00	H
ATOM	615	N	LEU A	45154.782	12.507	-10.178	1.00	0.00	N
ATOM	616	CA	LEU A	45153.577	11.916	-10.749	1.00	0.00	C
ATOM	617	C	LEU A	45152.383	12.121	-9.826	1.00	0.00	C
ATOM	618	O	LEU A	45152.330	11.557	-8.733	1.00	0.00	O

ATOM	619	CB	LEU A	45153.789	10.422	-11.006	1.00	0.00	C
ATOM	620	CG	LEU A	45154.407	9.647	-9.841	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.115	8.159	-9.974	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.907	9.898	-9.771	1.00	0.00	C
ATOM	623	H	LEU A	45155.095	12.205	-9.298	1.00	0.00	H
ATOM	624	HA	LEU A	45153.380	12.409	-11.690	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.830	9.980	-11.238	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.434	10.314	-11.865	1.00	0.00	H
ATOM	627	HG	LEU A	45153.966	9.991	-8.916	1.00	0.00	H
ATOM	628	1HD1	LEU A	45155.036	7.624	-10.154	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.438	7.995	-10.800	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.663	7.798	-9.062	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.426	8.959	-9.648	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.125	10.542	-8.932	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.236	10.374	-10.684	1.00	0.00	H
ATOM	634	N	ASN A	46151.424	12.927	-10.269	1.00	0.00	N
ATOM	635	CA	ASN A	46150.235	13.193	-9.470	1.00	0.00	C
ATOM	636	C	ASN A	46149.317	11.976	-9.459	1.00	0.00	C
ATOM	637	O	ASN A	46148.674	11.660	-10.460	1.00	0.00	O
ATOM	638	CB	ASN A	46149.488	14.408	-10.023	1.00	0.00	C
ATOM	639	CG	ASN A	46148.414	14.909	-9.078	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.337	14.320	-8.976	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.701	16.002	-8.381	1.00	0.00	N
ATOM	642	H	ASN A	46151.517	13.350	-11.148	1.00	0.00	H
ATOM	643	HA	ASN A	46150.552	13.403	-8.459	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.192	15.210	-10.193	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.022	14.140	-10.960	1.00	0.00	H

ATOM	646	1HD2	ASN A	46149.578	16.418	-8.513	1.00	0.00	H
ATOM	647	2HD2	ASN A	46148.024	16.347	-7.762	1.00	0.00	H
ATOM	648	N	GLU A	47149.262	11.298	-8.318	1.00	0.00	N
ATOM	649	CA	GLU A	47148.424	10.115	-8.169	1.00	0.00	C
ATOM	650	C	GLU A	47148.293	9.726	-6.701	1.00	0.00	C
ATOM	651	O	GLU A	47149.290	9.450	-6.033	1.00	0.00	O
ATOM	652	CB	GLU A	47149.005	8.945	-8.967	1.00	0.00	C
ATOM	653	CG	GLU A	47150.523	8.861	-8.914	1.00	0.00	C
ATOM	654	CD	GLU A	47151.092	7.924	-9.962	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.464	6.787	-9.603	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.164	8.328	-11.142	1.00	0.00	O
ATOM	657	H	GLU A	47149.799	11.601	-7.558	1.00	0.00	H
ATOM	658	HA	GLU A	47147.445	10.351	-8.555	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.602	8.022	-8.577	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.709	9.048	-10.001	1.00	0.00	H
ATOM	661	1HG	GLU A	47150.931	9.847	-9.076	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.820	8.507	-7.938	1.00	0.00	H
ATOM	663	N	VAL A	48147.064	9.696	-6.203	1.00	0.00	N
ATOM	664	CA	VAL A	48146.817	9.330	-4.815	1.00	0.00	C
ATOM	665	C	VAL A	48147.192	7.874	-4.570	1.00	0.00	C
ATOM	666	O	VAL A	48146.430	6.963	-4.895	1.00	0.00	O
ATOM	667	CB	VAL A	48145.342	9.544	-4.426	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.152	9.357	-2.928	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.869	10.922	-4.863	1.00	0.00	C
ATOM	670	H	VAL A	48146.305	9.918	-6.782	1.00	0.00	H
ATOM	671	HA	VAL A	48147.433	9.961	-4.188	1.00	0.00	H
ATOM	672	HB	VAL A	48144.745	8.803	-4.936	1.00	0.00	H

ATOM	673	1HG1	VAL A	48144.216	9.803	-2.627	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.964	9.833	-2.401	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.140	8.302	-2.696	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.632	11.653	-4.636	1.00	0.00	H
ATOM	677	2HG2	VAL A	48143.961	11.174	-4.337	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.681	10.918	-5.926	1.00	0.00	H
ATOM	679	N	LEU A	49148.373	7.660	-4.000	1.00	0.00	N
ATOM	680	CA	LEU A	49148.852	6.313	-3.717	1.00	0.00	C
ATOM	681	C	LEU A	49148.792	6.021	-2.223	1.00	0.00	C
ATOM	682	O	LEU A	49149.500	6.641	-1.431	1.00	0.00	O
ATOM	683	CB	LEU A	49150.283	6.140	-4.227	1.00	0.00	C
ATOM	684	CG	LEU A	49150.454	6.288	-5.740	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.838	6.822	-6.071	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.214	4.956	-6.434	1.00	0.00	C
ATOM	687	H	LEU A	49148.937	8.425	-3.765	1.00	0.00	H
ATOM	688	HA	LEU A	49148.208	5.617	-4.234	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.907	6.878	-3.741	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.629	5.158	-3.942	1.00	0.00	H
ATOM	691	HG	LEU A	49149.726	6.995	-6.111	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.800	7.900	-6.146	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.169	6.408	-7.012	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.530	6.540	-5.290	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.181	4.891	-6.742	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.438	4.149	-5.751	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.854	4.882	-7.301	1.00	0.00	H
ATOM	698	N	ALAA	50147.943	5.072	-1.846	1.00	0.00	N
ATOM	699	CA	ALAA	50147.794	4.702	-0.446	1.00	0.00	C

ATOM	700	C	ALA A	50148.728	3.553	-0.081	1.00	0.00	C
ATOM	701	O	ALA A	50148.587	2.440	-0.588	1.00	0.00	O
ATOM	702	CB	ALA A	50146.350	4.325	-0.152	1.00	0.00	C
ATOM	703	H	ALA A	50147.405	4.613	-2.524	1.00	0.00	H
ATOM	704	HA	ALA A	50148.047	5.565	0.151	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.908	3.878	-1.029	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.795	5.211	0.119	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.321	3.620	0.666	1.00	0.00	H
ATOM	708	N	GLY A	51149.682	3.830	0.801	1.00	0.00	N
ATOM	709	CA	GLY A	51150.625	2.809	1.219	1.00	0.00	C
ATOM	710	C	GLY A	51149.976	1.735	2.070	1.00	0.00	C
ATOM	711	O	GLY A	51149.657	1.965	3.236	1.00	0.00	O
ATOM	712	H	GLY A	51149.746	4.734	1.173	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.052	2.348	0.341	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.414	3.275	1.789	1.00	0.00	H
ATOM	715	N	LEU A	52149.779	0.557	1.485	1.00	0.00	N
ATOM	716	CA	LEU A	52149.164	-0.556	2.198	1.00	0.00	C
ATOM	717	C	LEU A	52150.224	-1.465	2.808	1.00	0.00	C
ATOM	718	O	LEU A	52151.150	-1.902	2.125	1.00	0.00	O
ATOM	719	CB	LEU A	52148.265	-1.358	1.256	1.00	0.00	C
ATOM	720	CG	LEU A	52147.001	-0.634	0.792	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.360	-1.372	-0.373	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.016	-0.493	1.943	1.00	0.00	C
ATOM	723	H	LEU A	52150.054	0.434	0.553	1.00	0.00	H
ATOM	724	HA	LEU A	52148.559	-0.145	2.994	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.844	-1.626	0.383	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.968	-2.266	1.761	1.00	0.00	H

ATOM	727	HG	LEU A	52147.265	0.358	0.453	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.068	-2.362	-0.055	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.069	-1.448	-1.184	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.488	-0.829	-0.707	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.198	0.145	1.641	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.517	-0.057	2.794	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.633	-1.467	2.211	1.00	0.00	H
ATOM	734	N	GLU A	53150.082	-1.748	4.100	1.00	0.00	N
ATOM	735	CA	GLU A	53151.027	-2.607	4.802	1.00	0.00	C
ATOM	736	C	GLU A	53150.520	-4.044	4.856	1.00	0.00	C
ATOM	737	O	GLU A	53149.535	-4.340	5.532	1.00	0.00	O
ATOM	738	CB	GLU A	53151.266	-2.085	6.221	1.00	0.00	C
ATOM	739	CG	GLU A	53152.268	-2.908	7.013	1.00	0.00	C
ATOM	740	CD	GLU A	53151.835	-3.131	8.448	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.291	-4.216	8.744	1.00	0.00	O
ATOM	742	OE2	GLU A	53152.041	-2.220	9.279	1.00	0.00	O
ATOM	743	H	GLU A	53149.323	-1.370	4.591	1.00	0.00	H
ATOM	744	HA	GLU A	53151.961	-2.587	4.259	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.633	-1.071	6.162	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.327	-2.087	6.756	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.382	-3.870	6.534	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.217	-2.393	7.013	1.00	0.00	H
ATOM	749	N	LEU A	54151.200	-4.933	4.139	1.00	0.00	N
ATOM	750	CA	LEU A	54150.817	-6.340	4.105	1.00	0.00	C
ATOM	751	C	LEU A	54151.111	-7.016	5.440	1.00	0.00	C
ATOM	752	O	LEU A	54152.156	-6.782	6.049	1.00	0.00	O
ATOM	753	CB	LEU A	54151.558	-7.064	2.979	1.00	0.00	C

ATOM	754	CG	LEU A	54151.517	-6.362	1.621	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.750	-6.710	0.802	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.250	-6.737	0.867	1.00	0.00	C
ATOM	757	H	LEU A	54151.976	-4.637	3.621	1.00	0.00	H
ATOM	758	HA	LEU A	54149.755	-6.390	3.916	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.592	-7.178	3.272	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.123	-8.046	2.864	1.00	0.00	H
ATOM	761	HG	LEU A	54151.510	-5.293	1.776	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.593	-6.419	-0.226	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.926	-7.775	0.853	1.00	0.00	H
ATOM	764	3HD1	LEU A	54153.605	-6.184	1.199	1.00	0.00	H
ATOM	765	1HD2	LEU A	54150.238	-7.803	0.691	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.227	-6.216	-0.080	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.386	-6.459	1.452	1.00	0.00	H
ATOM	768	N	GLU A	55150.185	-7.857	5.890	1.00	0.00	N
ATOM	769	CA	GLU A	55150.346	-8.568	7.153	1.00	0.00	C
ATOM	770	C	GLU A	55151.400	-9.662	7.031	1.00	0.00	C
ATOM	771	O	GLU A	55152.098	-9.977	7.995	1.00	0.00	O
ATOM	772	CB	GLU A	55149.013	-9.174	7.594	1.00	0.00	C
ATOM	773	CG	GLU A	55148.076	-8.172	8.249	1.00	0.00	C
ATOM	774	CD	GLU A	55146.632	-8.363	7.827	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.767	-8.503	8.717	1.00	0.00	O
ATOM	776	OE2	GLU A	55146.366	-8.371	6.606	1.00	0.00	O
ATOM	777	H	GLU A	55149.374	-8.002	5.359	1.00	0.00	H
ATOM	778	HA	GLU A	55150.670	-7.853	7.895	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.515	-9.588	6.730	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.207	-9.967	8.301	1.00	0.00	H

ATOM	781	1HG	GLU A	55148.139	-8.286	9.321	1.00	0.00	H
ATOM	782	2HG	GLU A	55148.387	-7.174	7.974	1.00	0.00	H
ATOM	783	N	ASP A	56151.511	-10.239	5.839	1.00	0.00	N
ATOM	784	CA	ASP A	56152.481	-11.300	5.590	1.00	0.00	C
ATOM	785	C	ASP A	56153.770	-10.732	5.004	1.00	0.00	C
ATOM	786	O	ASP A	56153.744	-10.008	4.008	1.00	0.00	O
ATOM	787	CB	ASP A	56151.893	-12.345	4.642	1.00	0.00	C
ATOM	788	CG	ASP A	56151.185	-13.464	5.381	1.00	0.00	C
ATOM	789	OD1	ASP A	56151.383	-14.640	5.009	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.434	-13.164	6.333	1.00	0.00	O
ATOM	791	H	ASP A	56150.927	-9.945	5.109	1.00	0.00	H
ATOM	792	HA	ASP A	56152.707	-11.770	6.535	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.181	-11.867	3.985	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.688	-12.775	4.051	1.00	0.00	H
ATOM	795	N	GLU A	57154.895	-11.065	5.626	1.00	0.00	N
ATOM	796	CA	GLU A	57156.194	-10.588	5.166	1.00	0.00	C
ATOM	797	C	GLU A	57156.577	-11.245	3.845	1.00	0.00	C
ATOM	798	O	GLU A	57157.029	-12.390	3.817	1.00	0.00	O
ATOM	799	CB	GLU A	57157.267	-10.870	6.220	1.00	0.00	C
ATOM	800	CG	GLU A	57157.447	-9.740	7.221	1.00	0.00	C
ATOM	801	CD	GLU A	57158.872	-9.634	7.728	1.00	0.00	C
ATOM	802	OE1	GLU A	57159.805	-9.697	6.900	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.056	-9.488	8.955	1.00	0.00	O
ATOM	804	H	GLU A	57154.851	-11.645	6.416	1.00	0.00	H
ATOM	805	HA	GLU A	57156.121	-9.522	5.016	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.996	-11.764	6.763	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.211	-11.035	5.721	1.00	0.00	H

ATOM	808	1HG	GLU A	57157.181	-8.809	6.746	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.793	-9.914	8.062	1.00	0.00	H
ATOM	810	N	CYS A	58156.395	-10.513	2.750	1.00	0.00	N
ATOM	811	CA	CYS A	58156.722	-11.025	1.425	1.00	0.00	C
ATOM	812	C	CYS A	58158.004	-10.389	0.898	1.00	0.00	C
ATOM	813	O	CYS A	58158.094	-9.169	0.762	1.00	0.00	O
ATOM	814	CB	CYS A	58155.570	-10.760	0.454	1.00	0.00	C
ATOM	815	SG	CYS A	58154.347	-12.089	0.379	1.00	0.00	S
ATOM	816	H	CYS A	58156.032	-9.607	2.837	1.00	0.00	H
ATOM	817	HA	CYS A	58156.872	-12.091	1.509	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.057	-9.858	0.754	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.972	-10.625	-0.540	1.00	0.00	H
ATOM	820	HG	CYS A	58154.819	-12.920	0.284	1.00	0.00	H
ATOM	821	N	ALA A	59158.995	-11.225	0.602	1.00	0.00	N
ATOM	822	CA	ALA A	59160.272	-10.744	0.090	1.00	0.00	C
ATOM	823	C	ALA A	59160.092	-10.017	-1.238	1.00	0.00	C
ATOM	824	O	ALA A	59159.556	-10.575	-2.195	1.00	0.00	O
ATOM	825	CB	ALA A	59161.246	-11.902	-0.069	1.00	0.00	C
ATOM	826	H	ALA A	59158.864	-12.187	0.732	1.00	0.00	H
ATOM	827	HA	ALA A	59160.683	-10.055	0.813	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.919	-11.697	-0.889	1.00	0.00	H
ATOM	829	2HB	ALA A	59160.697	-12.809	-0.272	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.814	-12.021	0.841	1.00	0.00	H
ATOM	831	N	GLY A	60160.541	-8.767	-1.288	1.00	0.00	N
ATOM	832	CA	GLY A	60160.420	-7.984	-2.504	1.00	0.00	C
ATOM	833	C	GLY A	60159.945	-6.569	-2.237	1.00	0.00	C
ATOM	834	O	GLY A	60160.265	-5.647	-2.989	1.00	0.00	O

ATOM	835	H	GLY A	60160.959	-8.373	-0.494	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.382	-7.943	-2.991	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.715	-8.469	-3.163	1.00	0.00	H
ATOM	838	N	CYS A	61159.183	-6.395	-1.163	1.00	0.00	N
ATOM	839	CA	CYS A	61158.664	-5.082	-0.798	1.00	0.00	C
ATOM	840	C	CYS A	61159.626	-4.359	0.140	1.00	0.00	C
ATOM	841	O	CYS A	61160.633	-4.922	0.567	1.00	0.00	O
ATOM	842	CB	CYS A	61157.293	-5.218	-0.136	1.00	0.00	C
ATOM	843	SG	CYS A	61156.080	-6.119	-1.129	1.00	0.00	S
ATOM	844	H	CYS A	61158.963	-7.168	-0.602	1.00	0.00	H
ATOM	845	HA	CYS A	61158.561	-4.503	-1.704	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.403	-5.742	0.801	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.894	-4.232	0.055	1.00	0.00	H
ATOM	848	HG	CYS A	61156.127	-5.787	-2.029	1.00	0.00	H
ATOM	849	N	THR A	62159.306	-3.107	0.457	1.00	0.00	N
ATOM	850	CA	THR A	62160.142	-2.308	1.345	1.00	0.00	C
ATOM	851	C	THR A	62159.530	-2.225	2.739	1.00	0.00	C
ATOM	852	O	THR A	62158.568	-2.929	3.048	1.00	0.00	O
ATOM	853	CB	THR A	62160.329	-0.902	0.774	1.00	0.00	C
ATOM	854	OG1	THR A	62159.146	-0.138	0.925	1.00	0.00	O
ATOM	855	CG2	THR A	62160.696	-0.896	-0.695	1.00	0.00	C
ATOM	856	H	THR A	62158.490	-2.714	0.084	1.00	0.00	H
ATOM	857	HA	THR A	62161.106	-2.789	1.416	1.00	0.00	H
ATOM	858	HB	THR A	62161.123	-0.407	1.314	1.00	0.00	H
ATOM	859	HG1	THR A	62158.400	-0.629	0.572	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.182	0.036	-0.941	1.00	0.00	H
ATOM	861	2HG2	THR A	62159.800	-1.003	-1.290	1.00	0.00	H

ATOM	862	3HG2 THR A	62161.365	-1.718	-0.902	1.00	0.00	H
ATOM	863	N ASP A	63160.095	-1.362	3.578	1.00	0.00	N
ATOM	864	CA ASP A	63159.605	-1.188	4.940	1.00	0.00	C
ATOM	865	C ASP A	63158.822	0.115	5.073	1.00	0.00	C
ATOM	866	O ASP A	63158.815	0.740	6.134	1.00	0.00	O
ATOM	867	CB ASP A	63160.772	-1.199	5.930	1.00	0.00	C
ATOM	868	CG ASP A	63161.778	-0.100	5.649	1.00	0.00	C
ATOM	869	OD1 ASP A	63162.909	-0.422	5.230	1.00	0.00	O
ATOM	870	OD2 ASP A	63161.434	1.085	5.850	1.00	0.00	O
ATOM	871	H ASP A	63160.860	-0.830	3.272	1.00	0.00	H
ATOM	872	HA ASP A	63158.947	-2.013	5.164	1.00	0.00	H
ATOM	873	1HB ASP A	63160.389	-1.064	6.930	1.00	0.00	H
ATOM	874	2HB ASP A	63161.279	-2.151	5.867	1.00	0.00	H
ATOM	875	N GLY A	64158.166	0.519	3.991	1.00	0.00	N
ATOM	876	CA GLY A	64157.389	1.744	4.009	1.00	0.00	C
ATOM	877	C GLY A	64158.114	2.900	3.347	1.00	0.00	C
ATOM	878	O GLY A	64158.167	4.002	3.892	1.00	0.00	O
ATOM	879	H GLY A	64158.208	-0.020	3.174	1.00	0.00	H
ATOM	880	1HA GLY A	64156.457	1.574	3.492	1.00	0.00	H
ATOM	881	2HA GLY A	64157.177	2.008	5.035	1.00	0.00	H
ATOM	882	N THR A	65158.674	2.647	2.168	1.00	0.00	N
ATOM	883	CA THR A	65159.399	3.675	1.431	1.00	0.00	C
ATOM	884	C THR A	65159.023	3.652	-0.047	1.00	0.00	C
ATOM	885	O THR A	65159.172	2.632	-0.720	1.00	0.00	O
ATOM	886	CB THR A	65160.908	3.476	1.589	1.00	0.00	C
ATOM	887	OG1 THR A	65161.327	2.287	0.941	1.00	0.00	O
ATOM	888	CG2 THR A	65161.353	3.394	3.032	1.00	0.00	C

ATOM	889	H	THR A	65158.598	1.748	1.786	1.00	0.00	H
ATOM	890	HA	THR A	65159.127	4.635	1.845	1.00	0.00	H
ATOM	891	HB	THR A	65161.420	4.310	1.131	1.00	0.00	H
ATOM	892	HG1	THR A	65160.733	1.570	1.174	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.703	2.395	3.245	1.00	0.00	H
ATOM	894	2HG2	THR A	65160.521	3.631	3.680	1.00	0.00	H
ATOM	895	3HG2	THR A	65162.154	4.099	3.203	1.00	0.00	H
ATOM	896	N	PHE A	66158.536	4.784	-0.546	1.00	0.00	N
ATOM	897	CA	PHE A	66158.138	4.894	-1.945	1.00	0.00	C
ATOM	898	C	PHE A	66159.106	5.785	-2.717	1.00	0.00	C
ATOM	899	O	PHE A	66159.243	6.971	-2.422	1.00	0.00	O
ATOM	900	CB	PHE A	66156.718	5.452	-2.051	1.00	0.00	C
ATOM	901	CG	PHE A	66156.051	5.152	-3.362	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.567	6.177	-4.159	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.908	3.844	-3.798	1.00	0.00	C
ATOM	904	CE1	PHE A	66154.953	5.903	-5.367	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.294	3.564	-5.004	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.816	4.596	-5.790	1.00	0.00	C
ATOM	907	H	PHE A	66158.441	5.563	0.040	1.00	0.00	H
ATOM	908	HA	PHE A	66158.159	3.904	-2.374	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.112	5.028	-1.265	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.752	6.526	-1.931	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.674	7.200	-3.829	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.282	3.037	-3.185	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.579	6.711	-5.978	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.189	2.541	-5.333	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.337	4.379	-6.732	1.00	0.00	H

ATOM	916	N	ARG A	67159.776	5.204	-3.706	1.00	0.00	N
ATOM	917	CA	ARG A	67160.732	5.945	-4.521	1.00	0.00	C
ATOM	918	C	ARG A	67161.860	6.505	-3.662	1.00	0.00	C
ATOM	919	O	ARG A	67162.359	7.602	-3.913	1.00	0.00	O
ATOM	920	CB	ARG A	67160.026	7.082	-5.263	1.00	0.00	C
ATOM	921	CG	ARG A	67158.955	6.606	-6.229	1.00	0.00	C
ATOM	922	CD	ARG A	67158.909	7.468	-7.481	1.00	0.00	C
ATOM	923	NE	ARG A	67160.062	7.236	-8.347	1.00	0.00	N
ATOM	924	CZ	ARG A	67160.434	8.061	-9.323	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.746	9.171	-9.562	1.00	0.00	N
ATOM	926	NH2	ARG A	67161.496	7.775	-10.064	1.00	0.00	N
ATOM	927	H	ARG A	67159.624	4.254	-3.893	1.00	0.00	H
ATOM	928	HA	ARG A	67161.150	5.261	-5.244	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.564	7.736	-4.539	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.762	7.642	-5.822	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.166	5.587	-6.514	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.994	6.651	-5.736	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.008	7.237	-8.029	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.894	8.507	-7.186	1.00	0.00	H
ATOM	935	HE	ARG A	67160.588	6.424	-8.193	1.00	0.00	H
ATOM	936	1HH1	ARG A	67158.944	9.393	-9.007	1.00	0.00	H
ATOM	937	2HH1	ARG A	67160.030	9.786	-10.297	1.00	0.00	H
ATOM	938	1HH2	ARG A	67162.018	6.940	-9.888	1.00	0.00	H
ATOM	939	2HH2	ARG A	67161.775	8.395	-10.798	1.00	0.00	H
ATOM	940	N	GLY A	68162.258	5.744	-2.648	1.00	0.00	N
ATOM	941	CA	GLY A	68163.326	6.180	-1.767	1.00	0.00	C
ATOM	942	C	GLY A	68162.888	7.290	-0.831	1.00	0.00	C

ATOM	943	O	GLY A	68163.699	8.118	-0.417	1.00	0.00	O
ATOM	944	H	GLY A	68161.824	4.879	-2.497	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.660	5.339	-1.179	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.150	6.537	-2.368	1.00	0.00	H
ATOM	947	N	THR A	69161.602	7.306	-0.497	1.00	0.00	N
ATOM	948	CA	THR A	69161.057	8.321	0.396	1.00	0.00	C
ATOM	949	C	THR A	69160.168	7.689	1.461	1.00	0.00	C
ATOM	950	O	THR A	69159.055	7.247	1.174	1.00	0.00	O
ATOM	951	CB	THR A	69160.261	9.357	-0.401	1.00	0.00	C
ATOM	952	OG1	THR A	69160.900	9.644	-1.631	1.00	0.00	O
ATOM	953	CG2	THR A	69160.075	10.666	0.336	1.00	0.00	C
ATOM	954	H	THR A	69161.005	6.618	-0.860	1.00	0.00	H
ATOM	955	HA	THR A	69161.886	8.814	0.882	1.00	0.00	H
ATOM	956	HB	THR A	69159.281	8.955	-0.614	1.00	0.00	H
ATOM	957	HG1	THR A	69161.773	10.008	-1.461	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.256	11.488	-0.340	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.772	10.717	1.160	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.065	10.725	0.714	1.00	0.00	H
ATOM	961	N	ARG A	70160.666	7.649	2.693	1.00	0.00	N
ATOM	962	CA	ARG A	70159.916	7.070	3.801	1.00	0.00	C
ATOM	963	C	ARG A	70158.751	7.971	4.200	1.00	0.00	C
ATOM	964	O	ARG A	70158.945	9.137	4.541	1.00	0.00	O
ATOM	965	CB	ARG A	70160.835	6.844	5.004	1.00	0.00	C
ATOM	966	CG	ARG A	70160.136	6.206	6.193	1.00	0.00	C
ATOM	967	CD	ARG A	70160.931	6.397	7.474	1.00	0.00	C
ATOM	968	NE	ARG A	70162.034	5.445	7.582	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.054	5.585	8.426	1.00	0.00	C

ATOM	970	NH1	ARG A	70163.116	6.635	9.235	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.015	4.673	8.459	1.00	0.00	N
ATOM	972	H	ARG A	70161.559	8.016	2.860	1.00	0.00	H
ATOM	973	HA	ARG A	70159.524	6.118	3.476	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.649	6.200	4.704	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.239	7.796	5.318	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.164	6.660	6.312	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.020	5.149	6.005	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.331	7.400	7.489	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.268	6.263	8.317	1.00	0.00	H
ATOM	980	HE	ARG A	70162.013	4.661	6.995	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.394	7.327	9.215	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.885	6.734	9.866	1.00	0.00	H
ATOM	983	1HH2	ARG A	70163.974	3.880	7.851	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.782	4.778	9.092	1.00	0.00	H
ATOM	985	N	TYR A	71157.543	7.421	4.154	1.00	0.00	N
ATOM	986	CA	TYR A	71156.346	8.176	4.510	1.00	0.00	C
ATOM	987	C	TYR A	71155.852	7.788	5.900	1.00	0.00	C
ATOM	988	O	TYR A	71155.446	8.644	6.686	1.00	0.00	O
ATOM	989	CB	TYR A	71155.242	7.936	3.479	1.00	0.00	C
ATOM	990	CG	TYR A	71155.536	8.538	2.124	1.00	0.00	C
ATOM	991	CD1	TYR A	71156.048	9.825	2.011	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.304	7.820	0.958	1.00	0.00	C
ATOM	993	CE1	TYR A	71156.318	10.379	0.773	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.572	8.367	-0.283	1.00	0.00	C
ATOM	995	CZ	TYR A	71156.079	9.647	-0.369	1.00	0.00	C
ATOM	996	OH	TYR A	71156.347	10.193	-1.603	1.00	0.00	O

ATOM	997	H	TYR A	71157.452	6.487	3.874	1.00	0.00	H
ATOM	998	HA	TYR A	71156.604	9.224	4.511	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.106	6.873	3.346	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.321	8.368	3.842	1.00	0.00	H
ATOM	1001	HD1	TYR A	71156.234	10.397	2.908	1.00	0.00	H
ATOM	1002	HD2	TYR A	71154.906	6.819	1.029	1.00	0.00	H
ATOM	1003	HE1	TYR A	71156.716	11.381	0.706	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.384	7.793	-1.178	1.00	0.00	H
ATOM	1005	HH	TYR A	71157.236	9.952	-1.874	1.00	0.00	H
ATOM	1006	N	PHE A	72155.891	6.494	6.197	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.448	5.993	7.492	1.00	0.00	C
ATOM	1008	C	PHE A	72156.433	4.968	8.045	1.00	0.00	C
ATOM	1009	O	PHE A	72157.368	4.556	7.358	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.057	5.368	7.373	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.981	4.262	6.359	1.00	0.00	C
ATOM	1012	CD1	PHE A	72154.205	2.946	6.733	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.686	4.538	5.034	1.00	0.00	C
ATOM	1014	CE1	PHE A	72154.135	1.926	5.802	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.616	3.522	4.099	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.841	2.214	4.484	1.00	0.00	C
ATOM	1017	H	PHE A	72156.226	5.859	5.528	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.399	6.831	8.172	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.769	4.961	8.330	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.350	6.133	7.084	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.434	2.719	7.763	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.511	5.560	4.731	1.00	0.00	H
ATOM	1023	HE1	PHE A	72154.311	0.905	6.106	1.00	0.00	H

ATOM	1024	HE2	PHE A	72153.386	3.751	3.069	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.786	1.419	3.756	1.00	0.00	H
ATOM	1026	N	THR A	73156.216	4.559	9.291	1.00	0.00	N
ATOM	1027	CA	THR A	73157.085	3.581	9.937	1.00	0.00	C
ATOM	1028	C	THR A	73156.374	2.242	10.094	1.00	0.00	C
ATOM	1029	O	THR A	73155.396	2.129	10.834	1.00	0.00	O
ATOM	1030	CB	THR A	73157.538	4.094	11.304	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.838	5.477	11.247	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.761	3.380	11.837	1.00	0.00	C
ATOM	1033	H	THR A	73155.455	4.923	9.789	1.00	0.00	H
ATOM	1034	HA	THR A	73157.952	3.443	9.309	1.00	0.00	H
ATOM	1035	HB	THR A	73156.736	3.951	12.015	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.472	5.918	12.018	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.373	4.077	12.389	1.00	0.00	H
ATOM	1038	2HG2	THR A	73159.331	2.978	11.011	1.00	0.00	H
ATOM	1039	3HG2	THR A	73158.454	2.575	12.487	1.00	0.00	H
ATOM	1040	N	CYS A	74156.871	1.227	9.394	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.282	-0.106	9.455	1.00	0.00	C
ATOM	1042	C	CYS A	74157.366	-1.179	9.459	1.00	0.00	C
ATOM	1043	O	CYS A	74158.558	-0.871	9.475	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.336	-0.324	8.272	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.626	0.165	8.594	1.00	0.00	S
ATOM	1046	H	CYS A	74157.652	1.380	8.821	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.718	-0.177	10.373	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.688	0.251	7.429	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.336	-1.372	8.011	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.519	0.260	9.543	1.00	0.00	H

ATOM	1051	N	ALAA	75156.944	-2.438	9.446	1.00	0.00	N
ATOM	1052	CA	ALAA	75157.878	-3.557	9.448	1.00	0.00	C
ATOM	1053	C	ALAA	75158.504	-3.753	8.071	1.00	0.00	C
ATOM	1054	O	ALAA	75158.021	-3.212	7.077	1.00	0.00	O
ATOM	1055	CB	ALAA	75157.177	-4.830	9.897	1.00	0.00	C
ATOM	1056	H	ALAA	75155.981	-2.620	9.434	1.00	0.00	H
ATOM	1057	HA	ALAA	75158.661	-3.336	10.159	1.00	0.00	H
ATOM	1058	1HB	ALAA	75156.438	-4.588	10.647	1.00	0.00	H
ATOM	1059	2HB	ALAA	75157.902	-5.513	10.314	1.00	0.00	H
ATOM	1060	3HB	ALAA	75156.692	-5.292	9.049	1.00	0.00	H
ATOM	1061	N	LEUA	76159.581	-4.530	8.021	1.00	0.00	N
ATOM	1062	CA	LEUA	76160.273	-4.798	6.765	1.00	0.00	C
ATOM	1063	C	LEUA	76159.514	-5.828	5.935	1.00	0.00	C
ATOM	1064	O	LEUA	76158.956	-6.784	6.473	1.00	0.00	O
ATOM	1065	CB	LEUA	76161.695	-5.292	7.037	1.00	0.00	C
ATOM	1066	CG	LEUA	76162.712	-4.195	7.352	1.00	0.00	C
ATOM	1067	CD1	LEUA	76163.770	-4.708	8.317	1.00	0.00	C
ATOM	1068	CD2	LEUA	76163.358	-3.686	6.072	1.00	0.00	C
ATOM	1069	H	LEUA	76159.919	-4.933	8.848	1.00	0.00	H
ATOM	1070	HA	LEUA	76160.323	-3.872	6.212	1.00	0.00	H
ATOM	1071	1HB	LEUA	76161.661	-5.975	7.874	1.00	0.00	H
ATOM	1072	2HB	LEUA	76162.038	-5.832	6.168	1.00	0.00	H
ATOM	1073	HG	LEUA	76162.204	-3.366	7.824	1.00	0.00	H
ATOM	1074	1HD1	LEUA	76164.717	-4.240	8.096	1.00	0.00	H
ATOM	1075	2HD1	LEUA	76163.865	-5.779	8.210	1.00	0.00	H
ATOM	1076	3HD1	LEUA	76163.478	-4.472	9.330	1.00	0.00	H
ATOM	1077	1HD2	LEUA	76162.688	-3.851	5.241	1.00	0.00	H

ATOM	1078	2HD2	LEU A	76164.282	-4.216	5.899	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.562	-2.630	6.166	1.00	0.00	H
ATOM	1080	N	LYS A	77159.498	-5.627	4.621	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.807	-6.538	3.716	1.00	0.00	C
ATOM	1082	C	LYS A	77157.311	-6.563	4.005	1.00	0.00	C
ATOM	1083	O	LYS A	77156.676	-7.618	3.962	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.387	-7.948	3.836	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.907	-7.984	3.832	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.469	-7.583	2.478	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.944	-7.228	2.570	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.150	-5.792	2.908	1.00	0.00	N
ATOM	1089	H	LYS A	77159.962	-4.846	4.252	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.960	-6.181	2.707	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.041	-8.389	4.760	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.033	-8.544	3.008	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.275	-7.299	4.580	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.235	-8.987	4.066	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.351	-8.408	1.791	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.924	-6.726	2.112	1.00	0.00	H
ATOM	1097	1HE	LYS A	77163.401	-7.837	3.337	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.412	-7.436	1.619	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.311	-5.241	2.041	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.976	-5.686	3.531	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.312	-5.416	3.395	1.00	0.00	H
ATOM	1102	N	LYS A	78156.750	-5.395	4.301	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.326	-5.284	4.597	1.00	0.00	C
ATOM	1104	C	LYS A	78154.793	-3.911	4.198	1.00	0.00	C

ATOM	1105	O	LYS A	78153.981	-3.318	4.908	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.074	-5.529	6.086	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.640	-6.847	6.590	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.270	-7.094	8.043	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.151	-8.116	8.169	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.312	-7.875	9.376	1.00	0.00	N
ATOM	1111	H	LYS A	78157.306	-4.589	4.318	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.809	-6.038	4.024	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.525	-4.728	6.653	1.00	0.00	H
ATOM	1114	2HB	LYS A	78154.009	-5.529	6.264	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.244	-7.651	5.986	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.716	-6.823	6.500	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.139	-7.463	8.568	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.947	-6.164	8.487	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.526	-8.055	7.291	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.586	-9.102	8.234	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.289	-6.859	9.599	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.703	-8.388	10.191	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.341	-8.205	9.207	1.00	0.00	H
ATOM	1124	N	ALAA	79155.255	-3.413	3.056	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.824	-2.111	2.561	1.00	0.00	C
ATOM	1126	C	ALAA	79154.652	-2.129	1.047	1.00	0.00	C
ATOM	1127	O	ALAA	79155.630	-2.201	0.301	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.822	-1.036	2.968	1.00	0.00	C
ATOM	1129	H	ALAA	79155.901	-3.932	2.534	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.874	-1.878	3.019	1.00	0.00	H
ATOM	1131	1HB	ALAA	79155.857	-0.270	2.207	1.00	0.00	H

ATOM	1132	2HB	ALA A	79156.801	-1.477	3.080	1.00	0.00	H
ATOM	1133	3HB	ALA A	79155.515	-0.597	3.906	1.00	0.00	H
ATOM	1134	N	LEU A	80153.404	-2.063	0.597	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.103	-2.072	-0.829	1.00	0.00	C
ATOM	1136	C	LEU A	80152.276	-0.851	-1.218	1.00	0.00	C
ATOM	1137	O	LEU A	80151.095	-0.756	-0.884	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.352	-3.352	-1.205	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.922	-3.444	-2.670	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.135	-3.587	-3.575	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.964	-4.609	-2.871	1.00	0.00	C
ATOM	1142	H	LEU A	80152.667	-2.007	1.240	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.039	-2.044	-1.367	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.990	-4.195	-0.985	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.468	-3.420	-0.589	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.406	-2.535	-2.944	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80152.858	-4.131	-4.466	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.913	-4.124	-3.052	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.497	-2.607	-3.850	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80151.527	-5.499	-3.113	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.285	-4.382	-3.679	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.403	-4.774	-1.963	1.00	0.00	H
ATOM	1153	N	PHE A	81152.905	0.081	-1.927	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.227	1.297	-2.362	1.00	0.00	C
ATOM	1155	C	PHE A	81151.405	1.041	-3.622	1.00	0.00	C
ATOM	1156	O	PHE A	81151.884	0.420	-4.571	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.246	2.408	-2.621	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.856	2.967	-1.367	1.00	0.00	C

ATOM	1159	CD1 PHE A	81153.201	3.948	-0.640	1.00	0.00	C
ATOM	1160	CD2 PHE A	81155.084	2.511	-0.916	1.00	0.00	C
ATOM	1161	CE1 PHE A	81153.759	4.463	0.514	1.00	0.00	C
ATOM	1162	CE2 PHE A	81155.649	3.023	0.237	1.00	0.00	C
ATOM	1163	CZ PHE A	81154.985	4.000	0.953	1.00	0.00	C
ATOM	1164	H PHE A	81153.846	-0.052	-2.164	1.00	0.00	H
ATOM	1165	HA PHE A	81151.563	1.607	-1.570	1.00	0.00	H
ATOM	1166	1HB PHE A	81154.045	2.019	-3.234	1.00	0.00	H
ATOM	1167	2HB PHE A	81152.759	3.218	-3.145	1.00	0.00	H
ATOM	1168	HD1 PHE A	81152.243	4.310	-0.982	1.00	0.00	H
ATOM	1169	HD2 PHE A	81155.604	1.747	-1.476	1.00	0.00	H
ATOM	1170	HE1 PHE A	81153.240	5.228	1.072	1.00	0.00	H
ATOM	1171	HE2 PHE A	81156.607	2.659	0.578	1.00	0.00	H
ATOM	1172	HZ PHE A	81155.424	4.401	1.854	1.00	0.00	H
ATOM	1173	N VAL A	82150.167	1.524	-3.623	1.00	0.00	N
ATOM	1174	CA VAL A	82149.280	1.347	-4.765	1.00	0.00	C
ATOM	1175	C VAL A	82148.315	2.521	-4.898	1.00	0.00	C
ATOM	1176	O VAL A	82148.180	3.332	-3.983	1.00	0.00	O
ATOM	1177	CB VAL A	82148.470	0.042	-4.652	1.00	0.00	C
ATOM	1178	CG1 VAL A	82149.379	-1.166	-4.809	1.00	0.00	C
ATOM	1179	CG2 VAL A	82147.724	-0.010	-3.327	1.00	0.00	C
ATOM	1180	H VAL A	82149.843	2.010	-2.836	1.00	0.00	H
ATOM	1181	HA VAL A	82149.889	1.292	-5.656	1.00	0.00	H
ATOM	1182	HB VAL A	82147.742	0.022	-5.450	1.00	0.00	H
ATOM	1183	1HG1 VAL A	82150.018	-1.028	-5.668	1.00	0.00	H
ATOM	1184	2HG1 VAL A	82148.779	-2.054	-4.947	1.00	0.00	H
ATOM	1185	3HG1 VAL A	82149.987	-1.278	-3.923	1.00	0.00	H

ATOM	1186	1HG2 VAL A	82147.242	-0.971	-3.223	1.00	0.00	H
ATOM	1187	2HG2 VAL A	82146.979	0.771	-3.303	1.00	0.00	H
ATOM	1188	3HG2 VAL A	82148.422	0.131	-2.515	1.00	0.00	H
ATOM	1189	N LYS A	83147.645	2.602	-6.043	1.00	0.00	N
ATOM	1190	CA LYS A	83146.693	3.677	-6.295	1.00	0.00	C
ATOM	1191	C LYS A	83145.494	3.573	-5.358	1.00	0.00	C
ATOM	1192	O LYS A	83144.809	2.552	-5.318	1.00	0.00	O
ATOM	1193	CB LYS A	83146.223	3.638	-7.751	1.00	0.00	C
ATOM	1194	CG LYS A	83147.353	3.770	-8.758	1.00	0.00	C
ATOM	1195	CD LYS A	83146.881	3.453	-10.168	1.00	0.00	C
ATOM	1196	CE LYS A	83147.739	4.151	-11.212	1.00	0.00	C
ATOM	1197	NZ LYS A	83148.766	3.239	-11.787	1.00	0.00	N
ATOM	1198	H LYS A	83147.796	1.924	-6.735	1.00	0.00	H
ATOM	1199	HA LYS A	83147.196	4.615	-6.114	1.00	0.00	H
ATOM	1200	1HB LYS A	83145.717	2.701	-7.929	1.00	0.00	H
ATOM	1201	2HB LYS A	83145.528	4.449	-7.914	1.00	0.00	H
ATOM	1202	1HG LYS A	83147.728	4.782	-8.734	1.00	0.00	H
ATOM	1203	2HG LYS A	83148.143	3.085	-8.489	1.00	0.00	H
ATOM	1204	1HD LYS A	83146.938	2.386	-10.325	1.00	0.00	H
ATOM	1205	2HD LYS A	83145.858	3.782	-10.277	1.00	0.00	H
ATOM	1206	1HE LYS A	83147.099	4.504	-12.007	1.00	0.00	H
ATOM	1207	2HE LYS A	83148.234	4.991	-10.749	1.00	0.00	H
ATOM	1208	1HZ LYS A	83148.971	2.466	-11.121	1.00	0.00	H
ATOM	1209	2HZ LYS A	83149.645	3.761	-11.974	1.00	0.00	H
ATOM	1210	3HZ LYS A	83148.422	2.831	-12.680	1.00	0.00	H
ATOM	1211	N LEU A	84145.250	4.640	-4.605	1.00	0.00	N
ATOM	1212	CA LEU A	84144.136	4.675	-3.666	1.00	0.00	C

ATOM	1213	C	LEU A	84142.808	4.456	-4.384	1.00	0.00	C
ATOM	1214	O	LEU A	84141.894	3.832	-3.844	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.115	6.015	-2.924	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.921	6.222	-1.990	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.105	5.434	-0.703	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.732	7.702	-1.689	1.00	0.00	C
ATOM	1219	H	LEU A	84145.833	5.423	-4.683	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.280	3.880	-2.950	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.020	6.091	-2.340	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.112	6.807	-3.658	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.025	5.863	-2.476	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.152	5.045	-0.380	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.508	6.082	0.061	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.789	4.616	-0.878	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.418	8.215	-2.586	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.667	8.121	-1.345	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84141.981	7.821	-0.924	1.00	0.00	H
ATOM	1230	N	LYS A	85142.708	4.971	-5.606	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.491	4.830	-6.398	1.00	0.00	C
ATOM	1232	C	LYS A	85141.220	3.365	-6.728	1.00	0.00	C
ATOM	1233	O	LYS A	85140.075	2.975	-6.956	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.602	5.645	-7.688	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.793	5.264	-8.549	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.264	6.434	-9.398	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.650	6.186	-9.970	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.138	7.346	-10.766	1.00	0.00	N
ATOM	1239	H	LYS A	85143.471	5.458	-5.982	1.00	0.00	H

ATOM	1240	HA	LYS A	85140.670	5.213	-5.811	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.702	5.500	-8.269	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.690	6.691	-7.433	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.602	4.949	-7.909	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.509	4.449	-9.200	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.570	6.576	-10.214	1.00	0.00	H
ATOM	1246	2HD	LYS A	85143.289	7.323	-8.786	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.335	6.008	-9.154	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.613	5.314	-10.605	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85146.175	7.409	-10.708	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.728	8.229	-10.401	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.863	7.236	-11.763	1.00	0.00	H
ATOM	1252	N	SER A	86142.277	2.559	-6.753	1.00	0.00	N
ATOM	1253	CA	SER A	86142.146	1.139	-7.057	1.00	0.00	C
ATOM	1254	C	SER A	86142.102	0.309	-5.777	1.00	0.00	C
ATOM	1255	O	SER A	86142.605	-0.814	-5.737	1.00	0.00	O
ATOM	1256	CB	SER A	86143.308	0.676	-7.938	1.00	0.00	C
ATOM	1257	OG	SER A	86143.567	1.608	-8.973	1.00	0.00	O
ATOM	1258	H	SER A	86143.165	2.928	-6.563	1.00	0.00	H
ATOM	1259	HA	SER A	86141.220	0.999	-7.594	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.197	0.572	-7.334	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.062	-0.278	-8.382	1.00	0.00	H
ATOM	1262	HG	SER A	86143.066	1.365	-9.755	1.00	0.00	H
ATOM	1263	N	CYS A	87141.498	0.868	-4.734	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.387	0.180	-3.453	1.00	0.00	C
ATOM	1265	C	CYS A	87139.928	-0.097	-3.109	1.00	0.00	C
ATOM	1266	O	CYS A	87139.021	0.538	-3.648	1.00	0.00	O

ATOM	1267	CB	CYS A	87142.036	1.012	-2.345	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.843	1.034	-2.401	1.00	0.00	S
ATOM	1269	H	CYS A	87141.116	1.766	-4.828	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.910	-0.761	-3.537	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.693	2.032	-2.424	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.740	0.613	-1.386	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.122	0.522	-3.164	1.00	0.00	H
ATOM	1274	N	ARG A	88139.706	-1.049	-2.208	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.356	-1.408	-1.793	1.00	0.00	C
ATOM	1276	C	ARG A	88138.267	-1.531	-0.272	1.00	0.00	C
ATOM	1277	O	ARG A	88139.211	-1.983	0.376	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.932	-2.723	-2.448	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.230	-2.538	-3.784	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.718	-2.566	-3.627	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.059	-3.157	-4.789	1.00	0.00	N
ATOM	1282	CZ	ARG A	88135.003	-2.577	-5.985	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.566	-1.391	-6.183	1.00	0.00	N
ATOM	1284	NH2	ARG A	88134.382	-3.184	-6.987	1.00	0.00	N
ATOM	1285	H	ARG A	88140.470	-1.520	-1.812	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.691	-0.623	-2.119	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.810	-3.332	-2.608	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.260	-3.244	-1.782	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.521	-1.587	-4.204	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.529	-3.335	-4.449	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.471	-3.146	-2.750	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.364	-1.553	-3.501	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.634	-4.033	-4.672	1.00	0.00	H

ATOM	1294	1HH1	ARG A	88136.035	-0.928	-5.431	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.520	-0.961	-7.084	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.956	-4.077	-6.844	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88134.340	-2.748	-7.887	1.00	0.00	H
ATOM	1298	N	PRO A	89137.126	-1.131	0.319	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.924	-1.201	1.769	1.00	0.00	C
ATOM	1300	C	PRO A	89137.168	-2.603	2.320	1.00	0.00	C
ATOM	1301	O	PRO A	89136.530	-3.566	1.898	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.455	-0.807	1.948	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.126	-0.003	0.740	1.00	0.00	C
ATOM	1304	CD	PRO A	89135.949	-0.581	-0.377	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.555	-0.497	2.291	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.846	-1.698	2.009	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.343	-0.225	2.851	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.074	-0.091	0.515	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.390	1.031	0.903	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.401	-1.361	-0.886	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.239	0.195	-1.072	1.00	0.00	H
ATOM	1312	N	ASP A	90138.095	-2.707	3.267	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.422	-3.991	3.877	1.00	0.00	C
ATOM	1314	C	ASP A	90137.795	-4.110	5.262	1.00	0.00	C
ATOM	1315	O	ASP A	90138.296	-3.540	6.232	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.940	-4.160	3.977	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.365	-5.614	3.896	1.00	0.00	C
ATOM	1318	OD1	ASP A	90139.547	-6.492	4.244	1.00	0.00	O
ATOM	1319	OD2	ASP A	90141.516	-5.873	3.485	1.00	0.00	O
ATOM	1320	H	ASP A	90138.570	-1.902	3.563	1.00	0.00	H

ATOM	1321	HA	ASP A	90138.023	-4.769	3.245	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.410	-3.622	3.168	1.00	0.00	H
ATOM	1323	2HB	ASP A	90140.279	-3.756	4.919	1.00	0.00	H
ATOM	1324	N	SER A	91136.695	-4.850	5.346	1.00	0.00	N
ATOM	1325	CA	SER A	91135.997	-5.042	6.613	1.00	0.00	C
ATOM	1326	C	SER A	91136.378	-6.376	7.247	1.00	0.00	C
ATOM	1327	O	SER A	91135.575	-6.993	7.947	1.00	0.00	O
ATOM	1328	CB	SER A	91134.485	-4.978	6.401	1.00	0.00	C
ATOM	1329	OG	SER A	91133.828	-4.483	7.554	1.00	0.00	O
ATOM	1330	H	SER A	91136.343	-5.278	4.537	1.00	0.00	H
ATOM	1331	HA	SER A	91136.293	-4.243	7.277	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.267	-4.326	5.569	1.00	0.00	H
ATOM	1333	2HB	SER A	91134.112	-5.970	6.187	1.00	0.00	H
ATOM	1334	HG	SER A	91133.100	-5.065	7.784	1.00	0.00	H
ATOM	1335	N	ARG A	92137.608	-6.815	6.999	1.00	0.00	N
ATOM	1336	CA	ARG A	92138.093	-8.076	7.546	1.00	0.00	C
ATOM	1337	C	ARG A	92138.164	-8.018	9.069	1.00	0.00	C
ATOM	1338	O	ARG A	92137.993	-9.030	9.748	1.00	0.00	O
ATOM	1339	CB	ARG A	92139.471	-8.409	6.972	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.416	-9.230	5.695	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.022	-10.671	5.976	1.00	0.00	C
ATOM	1342	NE	ARG A	92137.589	-10.891	5.797	1.00	0.00	N
ATOM	1343	CZ	ARG A	92137.005	-11.048	4.612	1.00	0.00	C
ATOM	1344	NH1	ARG A	92137.727	-11.011	3.498	1.00	0.00	N
ATOM	1345	NH2	ARG A	92135.696	-11.243	4.538	1.00	0.00	N
ATOM	1346	H	ARG A	92138.202	-6.278	6.434	1.00	0.00	H
ATOM	1347	HA	ARG A	92137.398	-8.851	7.260	1.00	0.00	H

ATOM	1348	1HB	ARG A	92139.992	-7.486	6.760	1.00	0.00	H
ATOM	1349	2HB	ARG A	92140.030	-8.966	7.709	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.688	-8.792	5.028	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.390	-9.216	5.227	1.00	0.00	H
ATOM	1352	1HD	ARG A	92139.562	-11.318	5.300	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.290	-10.912	6.994	1.00	0.00	H
ATOM	1354	HE	ARG A	92137.032	-10.923	6.603	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92138.714	-10.864	3.546	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92137.282	-11.130	2.611	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92135.147	-11.273	5.374	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92135.256	-11.362	3.648	1.00	0.00	H
ATOM	1359	N	PHE A	93138.419	-6.825	9.599	1.00	0.00	N
ATOM	1360	CA	PHE A	93138.513	-6.636	11.042	1.00	0.00	C
ATOM	1361	C	PHE A	93137.293	-5.889	11.574	1.00	0.00	C
ATOM	1362	O	PHE A	93137.385	-5.153	12.557	1.00	0.00	O
ATOM	1363	CB	PHE A	93139.788	-5.868	11.393	1.00	0.00	C
ATOM	1364	CG	PHE A	93141.045	-6.662	11.179	1.00	0.00	C
ATOM	1365	CD1	PHE A	93141.370	-7.144	9.921	1.00	0.00	C
ATOM	1366	CD2	PHE A	93141.902	-6.927	12.236	1.00	0.00	C
ATOM	1367	CE1	PHE A	93142.526	-7.875	9.721	1.00	0.00	C
ATOM	1368	CE2	PHE A	93143.059	-7.658	12.041	1.00	0.00	C
ATOM	1369	CZ	PHE A	93143.371	-8.132	10.782	1.00	0.00	C
ATOM	1370	H	PHE A	93138.546	-6.056	9.006	1.00	0.00	H
ATOM	1371	HA	PHE A	93138.552	-7.611	11.502	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.848	-4.982	10.780	1.00	0.00	H
ATOM	1373	2HB	PHE A	93139.751	-5.578	12.433	1.00	0.00	H
ATOM	1374	HD1	PHE A	93140.710	-6.943	9.090	1.00	0.00	H

ATOM	1375	HD2 PHE A	93141.658	-6.557	13.220	1.00	0.00	H
ATOM	1376	HE1 PHE A	93142.768	-8.246	8.735	1.00	0.00	H
ATOM	1377	HE2 PHE A	93143.718	-7.857	12.873	1.00	0.00	H
ATOM	1378	HZ PHE A	93144.275	-8.704	10.629	1.00	0.00	H
ATOM	1379	N ALA A	94136.153	-6.084	10.920	1.00	0.00	N
ATOM	1380	CA ALA A	94134.917	-5.429	11.329	1.00	0.00	C
ATOM	1381	C ALA A	94134.552	-5.791	12.766	1.00	0.00	C
ATOM	1382	O ALA A	94134.390	-6.965	13.099	1.00	0.00	O
ATOM	1383	CB ALA A	94133.784	-5.803	10.384	1.00	0.00	C
ATOM	1384	H ALA A	94136.142	-6.682	10.143	1.00	0.00	H
ATOM	1385	HA ALA A	94135.069	-4.361	11.267	1.00	0.00	H
ATOM	1386	1HB ALA A	94134.071	-6.665	9.802	1.00	0.00	H
ATOM	1387	2HB ALA A	94133.579	-4.974	9.722	1.00	0.00	H
ATOM	1388	3HB ALA A	94132.897	-6.034	10.956	1.00	0.00	H
ATOM	1389	N SER A	95134.426	-4.775	13.614	1.00	0.00	N
ATOM	1390	CA SER A	95134.082	-4.987	15.014	1.00	0.00	C
ATOM	1391	C SER A	95132.642	-4.567	15.290	1.00	0.00	C
ATOM	1392	O SER A	95132.089	-3.714	14.596	1.00	0.00	O
ATOM	1393	CB SER A	95135.036	-4.205	15.920	1.00	0.00	C
ATOM	1394	OG SER A	95136.145	-5.000	16.300	1.00	0.00	O
ATOM	1395	H SER A	95134.568	-3.861	13.289	1.00	0.00	H
ATOM	1396	HA SER A	95134.184	-6.041	15.225	1.00	0.00	H
ATOM	1397	1HB SER A	95135.397	-3.335	15.392	1.00	0.00	H
ATOM	1398	2HB SER A	95134.509	-3.893	16.809	1.00	0.00	H
ATOM	1399	HG SER A	95136.483	-5.467	15.533	1.00	0.00	H
ATOM	1400	N LEU A	96132.039	-5.172	16.308	1.00	0.00	N
ATOM	1401	CA LEU A	96130.663	-4.861	16.676	1.00	0.00	C

ATOM	1402	C	LEU A	96130.285	-5.533	17.992	1.00	0.00	C
ATOM	1403	O	LEU A	96129.953	-6.718	18.023	1.00	0.00	O
ATOM	1404	CB	LEU A	96129.704	-5.307	15.570	1.00	0.00	C
ATOM	1405	CG	LEU A	96128.495	-4.395	15.355	1.00	0.00	C
ATOM	1406	CD1	LEU A	96127.882	-4.636	13.984	1.00	0.00	C
ATOM	1407	CD2	LEU A	96127.462	-4.613	16.450	1.00	0.00	C
ATOM	1408	H	LEU A	96132.531	-5.845	16.825	1.00	0.00	H
ATOM	1409	HA	LEU A	96130.586	-3.792	16.797	1.00	0.00	H
ATOM	1410	1HB	LEU A	96130.258	-5.361	14.644	1.00	0.00	H
ATOM	1411	2HB	LEU A	96129.341	-6.295	15.812	1.00	0.00	H
ATOM	1412	HG	LEU A	96128.817	-3.364	15.399	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96128.625	-5.066	13.328	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96127.538	-3.698	13.573	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96127.048	-5.315	14.077	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96127.130	-5.641	16.431	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96126.618	-3.960	16.283	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96127.903	-4.395	17.410	1.00	0.00	H
ATOM	1419	N	GLN A	97130.339	-4.769	19.079	1.00	0.00	N
ATOM	1420	CA	GLN A	97130.002	-5.290	20.398	1.00	0.00	C
ATOM	1421	C	GLN A	97130.929	-6.442	20.781	1.00	0.00	C
ATOM	1422	O	GLN A	97131.595	-7.024	19.925	1.00	0.00	O
ATOM	1423	CB	GLN A	97128.547	-5.759	20.427	1.00	0.00	C
ATOM	1424	CG	GLN A	97127.566	-4.676	20.847	1.00	0.00	C
ATOM	1425	CD	GLN A	97126.204	-4.841	20.203	1.00	0.00	C
ATOM	1426	OE1	GLN A	97126.054	-4.681	18.992	1.00	0.00	O
ATOM	1427	NE2	GLN A	97125.201	-5.162	21.013	1.00	0.00	N
ATOM	1428	H	GLN A	97130.611	-3.831	18.990	1.00	0.00	H

ATOM	1429	HA	GLN A	97130.127	-4.490	21.112	1.00	0.00	H
ATOM	1430	1HB	GLN A	97128.271	-6.100	19.441	1.00	0.00	H
ATOM	1431	2HB	GLN A	97128.459	-6.583	21.121	1.00	0.00	H
ATOM	1432	1HG	GLN A	97127.447	-4.713	21.920	1.00	0.00	H
ATOM	1433	2HG	GLN A	97127.970	-3.714	20.564	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97125.395	-5.274	21.967	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97124.310	-5.275	20.622	1.00	0.00	H
ATOM	1436	N	PRO A	98130.983	-6.785	22.080	1.00	0.00	N
ATOM	1437	CA	PRO A	98131.833	-7.874	22.573	1.00	0.00	C
ATOM	1438	C	PRO A	98131.336	-9.245	22.127	1.00	0.00	C
ATOM	1439	O	PRO A	98130.179	-9.599	22.350	1.00	0.00	O
ATOM	1440	CB	PRO A	98131.737	-7.739	24.095	1.00	0.00	C
ATOM	1441	CG	PRO A	98130.430	-7.067	24.333	1.00	0.00	C
ATOM	1442	CD	PRO A	98130.221	-6.142	23.166	1.00	0.00	C
ATOM	1443	HA	PRO A	98132.859	-7.746	22.261	1.00	0.00	H
ATOM	1444	1HB	PRO A	98131.767	-8.720	24.548	1.00	0.00	H
ATOM	1445	2HB	PRO A	98132.560	-7.142	24.459	1.00	0.00	H
ATOM	1446	1HG	PRO A	98129.641	-7.804	24.375	1.00	0.00	H
ATOM	1447	2HG	PRO A	98130.469	-6.504	25.254	1.00	0.00	H
ATOM	1448	1HD	PRO A	98129.171	-6.080	22.917	1.00	0.00	H
ATOM	1449	2HD	PRO A	98130.617	-5.162	23.386	1.00	0.00	H
ATOM	1450	N	SER A	99132.218	-10.012	21.495	1.00	0.00	N
ATOM	1451	CA	SER A	99131.868	-11.344	21.017	1.00	0.00	C
ATOM	1452	C	SER A	99132.957	-12.352	21.371	1.00	0.00	C
ATOM	1453	O	SER A	99132.687	-13.383	21.987	1.00	0.00	O
ATOM	1454	CB	SER A	99131.648	-11.324	19.503	1.00	0.00	C
ATOM	1455	OG	SER A	99132.444	-10.328	18.884	1.00	0.00	O

ATOM	1456	H	SER A	99133.126	-9.673	21.346	1.00	0.00	H
ATOM	1457	HA	SER A	99130.950	-11.639	21.502	1.00	0.00	H
ATOM	1458	1HB	SER A	99131.914	-12.287	19.091	1.00	0.00	H
ATOM	1459	2HB	SER A	99130.608	-11.119	19.296	1.00	0.00	H
ATOM	1460	HG	SER A	99131.881	-9.611	18.582	1.00	0.00	H
ATOM	1461	N	GLY A	100134.190	-12.047	20.978	1.00	0.00	N
ATOM	1462	CA	GLY A	100135.300	-12.936	21.263	1.00	0.00	C
ATOM	1463	C	GLY A	100135.839	-12.759	22.670	1.00	0.00	C
ATOM	1464	O	GLY A	100135.168	-12.182	23.525	1.00	0.00	O
ATOM	1465	H	GLY A	100134.346	-11.212	20.491	1.00	0.00	H
ATOM	1466	1HA	GLY A	100134.970	-13.957	21.141	1.00	0.00	H
ATOM	1467	2HA	GLY A	100136.095	-12.740	20.557	1.00	0.00	H
ATOM	1468	N	PRO A	101137.062	-13.248	22.942	1.00	0.00	N
ATOM	1469	CA	PRO A	101137.680	-13.133	24.267	1.00	0.00	C
ATOM	1470	C	PRO A	101138.074	-11.697	24.600	1.00	0.00	C
ATOM	1471	O	PRO A	101137.812	-11.210	25.698	1.00	0.00	O
ATOM	1472	CB	PRO A	101138.926	-14.015	24.156	1.00	0.00	C
ATOM	1473	CG	PRO A	101139.252	-14.029	22.703	1.00	0.00	C
ATOM	1474	CD	PRO A	101137.934	-13.949	21.982	1.00	0.00	C
ATOM	1475	HA	PRO A	101137.032	-13.516	25.041	1.00	0.00	H
ATOM	1476	1HB	PRO A	101139.728	-13.586	24.738	1.00	0.00	H
ATOM	1477	2HB	PRO A	101138.701	-15.007	24.519	1.00	0.00	H
ATOM	1478	1HG	PRO A	101139.867	-13.176	22.456	1.00	0.00	H
ATOM	1479	2HG	PRO A	101139.762	-14.947	22.450	1.00	0.00	H
ATOM	1480	1HD	PRO A	101138.037	-13.382	21.069	1.00	0.00	H
ATOM	1481	2HD	PRO A	101137.558	-14.940	21.773	1.00	0.00	H
ATOM	1482	N	SER A	102138.704	-11.024	23.642	1.00	0.00	N

ATOM	1483	CA	SER A 102139.133	-9.644	23.833	1.00	0.00	C
ATOM	1484	C	SER A 102139.033	-8.858	22.530	1.00	0.00	C
ATOM	1485	O	SER A 102140.038	-8.608	21.865	1.00	0.00	O
ATOM	1486	CB	SER A 102140.569	-9.602	24.359	1.00	0.00	C
ATOM	1487	OG	SER A 102140.652	-10.160	25.659	1.00	0.00	O
ATOM	1488	H	SER A 102138.885	-11.467	22.786	1.00	0.00	H
ATOM	1489	HA	SER A 102138.479	-9.192	24.564	1.00	0.00	H
ATOM	1490	1HB	SER A 102141.209	-10.168	23.699	1.00	0.00	H
ATOM	1491	2HB	SER A 102140.907	-8.577	24.398	1.00	0.00	H
ATOM	1492	HG	SER A 102140.083	-9.667	26.256	1.00	0.00	H
ATOM	1493	N	SER A 103137.813	-8.469	22.171	1.00	0.00	N
ATOM	1494	CA	SER A 103137.575	-7.710	20.947	1.00	0.00	C
ATOM	1495	C	SER A 103137.853	-8.562	19.712	1.00	0.00	C
ATOM	1496	O	SER A 103136.932	-8.955	18.997	1.00	0.00	O
ATOM	1497	CB	SER A 103138.444	-6.450	20.921	1.00	0.00	C
ATOM	1498	OG	SER A 103137.703	-5.328	20.472	1.00	0.00	O
ATOM	1499	H	SER A 103137.051	-8.699	22.744	1.00	0.00	H
ATOM	1500	HA	SER A 103136.535	-7.417	20.938	1.00	0.00	H
ATOM	1501	1HB	SER A 103138.809	-6.246	21.917	1.00	0.00	H
ATOM	1502	2HB	SER A 103139.280	-6.603	20.256	1.00	0.00	H
ATOM	1503	HG	SER A 103137.240	-5.554	19.662	1.00	0.00	H
ATOM	1504	N	GLY A 104139.130	-8.843	19.468	1.00	0.00	N
ATOM	1505	CA	GLY A 104139.505	-9.647	18.319	1.00	0.00	C
ATOM	1506	C	GLY A 104140.109	-8.818	17.205	1.00	0.00	C
ATOM	1507	O	GLY A 104141.142	-8.158	17.448	1.00	0.00	O
ATOM	1508	OXT	GLY A 104139.552	-8.828	16.087	1.00	0.00	O
ATOM	1509	H	GLY A 104139.822	-8.504	20.073	1.00	0.00	H

ATOM 1510 1HA GLY A 104 140.225 -10.388 18.633 1.00 0.00 H
 ATOM 1511 2HA GLY A 104 138.626 -10.150 17.943 1.00 0.00 H
 TER 1512 GLY A 104
 ENDMDL

Three-Dimensional Structure Coordinate Table 3

ATOM 1	N	GLY A	1125.212	27.334	-8.433	1.00	0.00	N
ATOM 2	CA	GLY A	1126.127	26.226	-8.041	1.00	0.00	C
ATOM 3	C	GLY A	1126.734	25.523	-9.238	1.00	0.00	C
ATOM 4	O	GLY A	1126.538	24.322	-9.426	1.00	0.00	O
ATOM 5	1H	GLY A	1125.466	27.688	-9.377	1.00	0.00	H
ATOM 6	2H	GLY A	1125.283	28.114	-7.751	1.00	0.00	H
ATOM 7	3H	GLY A	1124.229	26.994	-8.455	1.00	0.00	H
ATOM 8	1HA	GLY A	1126.923	26.630	-7.432	1.00	0.00	H
ATOM 9	2HA	GLY A	1125.572	25.506	-7.457	1.00	0.00	H
ATOM10	N	SER A	2127.472	26.272	-10.049	1.00	0.00	N
ATOM11	CA	SER A	2128.110	25.713	-11.236	1.00	0.00	C
ATOM12	C	SER A	2129.203	24.723	-10.851	1.00	0.00	C
ATOM13	O	SER A	2129.120	23.536	-11.169	1.00	0.00	O
ATOM14	CB	SER A	2128.700	26.831	-12.098	1.00	0.00	C
ATOM15	OG	SER A	2127.762	27.284	-13.059	1.00	0.00	O
ATOM16	H	SER A	2127.592	27.223	-9.846	1.00	0.00	H
ATOM17	HA	SER A	2127.354	25.193	-11.805	1.00	0.00	H
ATOM18	1HB	SER A	2128.978	27.662	-11.466	1.00	0.00	H
ATOM19	2HB	SER A	2129.575	26.461	-12.613	1.00	0.00	H
ATOM20	HG	SER A	2127.770	28.243	-13.087	1.00	0.00	H
ATOM21	N	SER A	3130.228	25.217	-10.164	1.00	0.00	N

ATOM22	CA	SER A	3131.338	24.374	-9.734	1.00	0.00	C
ATOM23	C	SER A	3130.855	23.274	-8.795	1.00	0.00	C
ATOM24	O	SER A	3130.082	23.528	-7.871	1.00	0.00	O
ATOM25	CB	SER A	3132.408	25.220	-9.040	1.00	0.00	C
ATOM26	OG	SER A	3132.727	26.369	-9.806	1.00	0.00	O
ATOM27	H	SER A	3130.237	26.171	-9.939	1.00	0.00	H
ATOM28	HA	SER A	3131.767	23.918	-10.613	1.00	0.00	H
ATOM29	1HB	SER A	3132.043	25.537	-8.075	1.00	0.00	H
ATOM30	2HB	SER A	3133.302	24.629	-8.910	1.00	0.00	H
ATOM31	HG	SER A	3132.091	27.063	-9.621	1.00	0.00	H
ATOM32	N	GLY A	4131.315	22.051	-9.038	1.00	0.00	N
ATOM33	CA	GLY A	4130.919	20.931	-8.206	1.00	0.00	C
ATOM34	C	GLY A	4130.532	19.711	-9.020	1.00	0.00	C
ATOM35	O	GLY A	4129.678	19.791	-9.902	1.00	0.00	O
ATOM36	H	GLY A	4131.929	21.908	-9.789	1.00	0.00	H
ATOM37	1HA	GLY A	4131.742	20.670	-7.557	1.00	0.00	H
ATOM38	2HA	GLY A	4130.076	21.227	-7.599	1.00	0.00	H
ATOM39	N	SER A	5131.165	18.580	-8.724	1.00	0.00	N
ATOM40	CA	SER A	5130.883	17.339	-9.436	1.00	0.00	C
ATOM41	C	SER A	5129.775	16.553	-8.741	1.00	0.00	C
ATOM42	O	SER A	5129.529	16.730	-7.548	1.00	0.00	O
ATOM43	CB	SER A	5132.147	16.483	-9.532	1.00	0.00	C
ATOM44	OG	SER A	5132.417	15.830	-8.304	1.00	0.00	O
ATOM45	H	SER A	5131.837	18.580	-8.011	1.00	0.00	H
ATOM46	HA	SER A	5130.555	17.595	-10.432	1.00	0.00	H
ATOM47	1HB	SER A	5132.015	15.736	-10.300	1.00	0.00	H
ATOM48	2HB	SER A	5132.987	17.113	-9.784	1.00	0.00	H

ATOM49	HG	SER A	5132.762	14.951	-8.477	1.00	0.00	H
ATOM50	N	SER A	6129.109	15.685	-9.496	1.00	0.00	N
ATOM51	CA	SER A	6128.028	14.872	-8.952	1.00	0.00	C
ATOM52	C	SER A	6128.579	13.712	-8.129	1.00	0.00	C
ATOM53	O	SER A	6129.231	12.814	-8.662	1.00	0.00	O
ATOM54	CB	SER A	6127.146	14.337	-10.081	1.00	0.00	C
ATOM55	OG	SER A	6126.755	15.378	-10.960	1.00	0.00	O
ATOM56	H	SER A	6129.352	15.588	-10.440	1.00	0.00	H
ATOM57	HA	SER A	6127.431	15.502	-8.309	1.00	0.00	H
ATOM58	1HB	SER A	6127.695	13.597	-10.644	1.00	0.00	H
ATOM59	2HB	SER A	6126.260	13.885	-9.661	1.00	0.00	H
ATOM60	HG	SER A	6127.535	15.778	-11.351	1.00	0.00	H
ATOM61	N	GLY A	7128.313	13.737	-6.827	1.00	0.00	N
ATOM62	CA	GLY A	7128.790	12.683	-5.952	1.00	0.00	C
ATOM63	C	GLY A	7127.664	11.816	-5.421	1.00	0.00	C
ATOM64	O	GLY A	7127.124	12.079	-4.346	1.00	0.00	O
ATOM65	H	GLY A	7127.788	14.478	-6.458	1.00	0.00	H
ATOM66	1HA	GLY A	7129.481	12.060	-6.499	1.00	0.00	H
ATOM67	2HA	GLY A	7129.308	13.130	-5.116	1.00	0.00	H
ATOM68	N	LEU A	8127.309	10.783	-6.177	1.00	0.00	N
ATOM69	CA	LEU A	8126.240	9.875	-5.777	1.00	0.00	C
ATOM70	C	LEU A	8126.566	9.201	-4.447	1.00	0.00	C
ATOM71	O	LEU A	8125.679	8.948	-3.633	1.00	0.00	O
ATOM72	CB	LEU A	8126.012	8.815	-6.857	1.00	0.00	C
ATOM73	CG	LEU A	8125.799	9.364	-8.267	1.00	0.00	C
ATOM74	CD1	LEU A	8126.357	8.401	-9.305	1.00	0.00	C
ATOM75	CD2	LEU A	8124.323	9.626	-8.520	1.00	0.00	C

ATOM76	H	LEU A	8127.778	10.626	-7.023	1.00	0.00	H	
ATOM77	HA	LEU A	8125.338	10.456	-5.659	1.00	0.00	H	
ATOM78	1HB	LEU A	8126.869	8.158	-6.872	1.00	0.00	H	
ATOM79	2HB	LEU A	8125.141	8.237	-6.585	1.00	0.00	H	
ATOM80	HG	LEU A	8126.328	10.302	-8.366	1.00	0.00	H	
ATOM81	1HD1	LEU A	8125.688	7.560	-9.412	1.00	0.00	H	
ATOM82	2HD1	LEU A	8127.328	8.051	-8.985	1.00	0.00	H	
ATOM83	3HD1	LEU A	8126.453	8.909	-10.253	1.00	0.00	H	
ATOM84	1HD2	LEU A	8124.119	9.548	-9.578	1.00	0.00	H	
ATOM85	2HD2	LEU A	8124.069	10.618	-8.177	1.00	0.00	H	
ATOM86	3HD2	LEU A	8123.731	8.897	-7.986	1.00	0.00	H	
ATOM87	N	ALA A	9127.846	8.913	-4.236	1.00	0.00	N	
ATOM88	CA	ALA A	9128.291	8.269	-3.007	1.00	0.00	C	
ATOM89	C	ALA A	9129.810	8.310	-2.884	1.00	0.00	C	
ATOM90	O	ALA A	9130.425	7.393	-2.339	1.00	0.00	O	
ATOM91	CB	ALA A	9127.794	6.833	-2.955	1.00	0.00	C	
ATOM92	H	ALA A	9128.507	9.141	-4.924	1.00	0.00	H	
ATOM93	HA	ALA A	9127.858	8.805	-2.175	1.00	0.00	H	
ATOM94	1HB	ALA A	9128.506	6.225	-2.415	1.00	0.00	H	
ATOM95	2HB	ALA A	9127.686	6.452	-3.960	1.00	0.00	H	
ATOM96	3HB	ALA A	9126.839	6.800	-2.452	1.00	0.00	H	
ATOM97	N	MET A	10130.412	9.381	-3.394	1.00	0.00	N	
ATOM98	CA	MET A	10131.861	9.542	-3.341	1.00	0.00	C	
ATOM99	C	MET A	10132.281	10.879	-3.949	1.00	0.00	C	
ATOM	100	O	MET A	10132.849	10.924	-5.041	1.00	0.00	O
ATOM	101	CB	MET A	10132.550	8.392	-4.080	1.00	0.00	C
ATOM	102	CG	MET A	10131.913	8.058	-5.419	1.00	0.00	C

ATOM	103	SD	MET A	10132.616	6.579	-6.173	1.00	0.00 S
ATOM	104	CE	MET A	10132.892	7.152	-7.847	1.00	0.00 C
ATOM	105	H	MET A	10129.868	10.079	-3.816	1.00	0.00 H
ATOM	106	HA	MET A	10132.159	9.522	-2.304	1.00	0.00 H
ATOM	107	1HB	MET A	10133.582	8.658	-4.253	1.00	0.00 H
ATOM	108	2HB	MET A	10132.515	7.509	-3.459	1.00	0.00 H
ATOM	109	1HG	MET A	10130.855	7.900	-5.270	1.00	0.00 H
ATOM	110	2HG	MET A	10132.060	8.892	-6.089	1.00	0.00 H
ATOM	111	1HE	MET A	10133.578	7.985	-7.834	1.00	0.00 H
ATOM	112	2HE	MET A	10131.954	7.464	-8.281	1.00	0.00 H
ATOM	113	3HE	MET A	10133.312	6.350	-8.437	1.00	0.00 H
ATOM	114	N	PRO A	11132.008	11.991	-3.245	1.00	0.00 N
ATOM	115	CA	PRO A	11132.361	13.332	-3.719	1.00	0.00 C
ATOM	116	C	PRO A	11133.857	13.483	-3.993	1.00	0.00 C
ATOM	117	O	PRO A	11134.251	14.000	-5.038	1.00	0.00 O
ATOM	118	CB	PRO A	11131.929	14.253	-2.573	1.00	0.00 C
ATOM	119	CG	PRO A	11130.928	13.466	-1.798	1.00	0.00 C
ATOM	120	CD	PRO A	11131.334	12.027	-1.935	1.00	0.00 C
ATOM	121	HA	PRO A	11131.811	13.588	-4.613	1.00	0.00 H
ATOM	122	1HB	PRO A	11132.788	14.507	-1.969	1.00	0.00 H
ATOM	123	2HB	PRO A	11131.492	15.154	-2.979	1.00	0.00 H
ATOM	124	1HG	PRO A	11130.950	13.764	-0.761	1.00	0.00 H
ATOM	125	2HG	PRO A	11129.942	13.618	-2.212	1.00	0.00 H
ATOM	126	1HD	PRO A	11132.014	11.749	-1.144	1.00	0.00 H
ATOM	127	2HD	PRO A	11130.465	11.386	-1.931	1.00	0.00 H
ATOM	128	N	PRO A	12134.718	13.035	-3.058	1.00	0.00 N
ATOM	129	CA	PRO A	12136.168	13.131	-3.217	1.00	0.00 C

ATOM	130	C	PRO A	12136.731	12.015	-4.090	1.00	0.00 C
ATOM	131	O	PRO A	12137.651	12.234	-4.879	1.00	0.00 O
ATOM	132	CB	PRO A	12136.677	12.999	-1.785	1.00	0.00 C
ATOM	133	CG	PRO A	12135.676	12.124	-1.112	1.00	0.00 C
ATOM	134	CD	PRO A	12134.349	12.402	-1.774	1.00	0.00 C
ATOM	135	HA	PRO A	12136.461	14.089	-3.621	1.00	0.00 H
ATOM	136	1HB	PRO A	12137.659	12.549	-1.788	1.00	0.00 H
ATOM	137	2HB	PRO A	12136.720	13.974	-1.323	1.00	0.00 H
ATOM	138	1HG	PRO A	12135.949	11.087	-1.246	1.00	0.00 H
ATOM	139	2HG	PRO A	12135.627	12.365	-0.061	1.00	0.00 H
ATOM	140	1HD	PRO A	12133.815	11.479	-1.940	1.00	0.00 H
ATOM	141	2HD	PRO A	12133.761	13.074	-1.167	1.00	0.00 H
ATOM	142	N	GLY A	13136.173	10.818	-3.944	1.00	0.00 N
ATOM	143	CA	GLY A	13136.632	9.684	-4.726	1.00	0.00 C
ATOM	144	C	GLY A	13136.975	8.487	-3.862	1.00	0.00 C
ATOM	145	O	GLY A	13137.982	7.818	-4.091	1.00	0.00 O
ATOM	146	H	GLY A	13135.443	10.703	-3.300	1.00	0.00 H
ATOM	147	1HA	GLY A	13135.855	9.402	-5.421	1.00	0.00 H
ATOM	148	2HA	GLY A	13137.510	9.976	-5.283	1.00	0.00 H
ATOM	149	N	ASN A	14136.136	8.216	-2.867	1.00	0.00 N
ATOM	150	CA	ASN A	14136.356	7.092	-1.966	1.00	0.00 C
ATOM	151	C	ASN A	14135.123	6.196	-1.901	1.00	0.00 C
ATOM	152	O	ASN A	14133.991	6.673	-1.989	1.00	0.00 O
ATOM	153	CB	ASN A	14136.708	7.595	-0.565	1.00	0.00 C
ATOM	154	CG	ASN A	14138.013	8.366	-0.540	1.00	0.00 C
ATOM	155	OD1	ASN A	14138.027	9.590	-0.676	1.00	0.00 O
ATOM	156	ND2	ASN A	14139.119	7.653	-0.365	1.00	0.00 N

ATOM	157	H	ASN A	14135.350	8.787	-2.737	1.00	0.00	H
ATOM	158	HA	ASN A	14137.185	6.515	-2.350	1.00	0.00	H
ATOM	159	1HB	ASN A	14135.920	8.245	-0.214	1.00	0.00	H
ATOM	160	2HB	ASN A	14136.797	6.751	0.102	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.032	6.682	-0.263	1.00	0.00	H
ATOM	162	2HD2	ASN A	14139.977	8.127	-0.344	1.00	0.00	H
ATOM	163	N	SER A	15135.349	4.896	-1.747	1.00	0.00	N
ATOM	164	CA	SER A	15134.257	3.933	-1.670	1.00	0.00	C
ATOM	165	C	SER A	15133.351	4.234	-0.480	1.00	0.00	C
ATOM	166	O	SER A	15132.125	4.183	-0.592	1.00	0.00	O
ATOM	167	CB	SER A	15134.808	2.511	-1.559	1.00	0.00	C
ATOM	168	OG	SER A	15133.762	1.569	-1.395	1.00	0.00	O
ATOM	169	H	SER A	15136.274	4.576	-1.683	1.00	0.00	H
ATOM	170	HA	SER A	15133.678	4.015	-2.578	1.00	0.00	H
ATOM	171	1HB	SER A	15135.357	2.269	-2.456	1.00	0.00	H
ATOM	172	2HB	SER A	15135.469	2.450	-0.705	1.00	0.00	H
ATOM	173	HG	SER A	15133.843	0.882	-2.061	1.00	0.00	H
ATOM	174	N	HIS A	16133.961	4.548	0.657	1.00	0.00	N
ATOM	175	CA	HIS A	16133.209	4.857	1.868	1.00	0.00	C
ATOM	176	C	HIS A	16134.054	5.675	2.839	1.00	0.00	C
ATOM	177	O	HIS A	16133.627	6.726	3.317	1.00	0.00	O
ATOM	178	CB	HIS A	16132.738	3.568	2.544	1.00	0.00	C
ATOM	179	CG	HIS A	16131.347	3.167	2.163	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.235	3.926	2.465	1.00	0.00	N
ATOM	181	CD2	HIS A	16130.889	2.079	1.500	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.154	3.321	2.004	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.523	2.200	1.414	1.00	0.00	N

ATOM	184	H	HIS A	16134.940	4.572	0.684	1.00	0.00 H
ATOM	185	HA	HIS A	16132.346	5.439	1.582	1.00	0.00 H
ATOM	186	1HB	HIS A	16133.402	2.762	2.269	1.00	0.00 H
ATOM	187	2HB	HIS A	16132.765	3.700	3.616	1.00	0.00 H
ATOM	188	HD1	HIS A	16130.238	4.780	2.945	1.00	0.00 H
ATOM	189	HD2	HIS A	16131.487	1.267	1.110	1.00	0.00 H
ATOM	190	HE1	HIS A	16128.141	3.684	2.094	1.00	0.00 H
ATOM	191	HE2	HIS A	16128.912	1.519	1.063	1.00	0.00 H
ATOM	192	N	GLY A	17135.256	5.187	3.127	1.00	0.00 N
ATOM	193	CA	GLY A	17136.143	5.884	4.039	1.00	0.00 C
ATOM	194	C	GLY A	17137.538	5.294	4.059	1.00	0.00 C
ATOM	195	O	GLY A	17138.056	4.942	5.119	1.00	0.00 O
ATOM	196	H	GLY A	17135.544	4.345	2.716	1.00	0.00 H
ATOM	197	1HA	GLY A	17136.206	6.921	3.740	1.00	0.00 H
ATOM	198	2HA	GLY A	17135.728	5.835	5.036	1.00	0.00 H
ATOM	199	N	LEU A	18138.149	5.184	2.883	1.00	0.00 N
ATOM	200	CA	LEU A	18139.492	4.631	2.770	1.00	0.00 C
ATOM	201	C	LEU A	18140.541	5.657	3.188	1.00	0.00 C
ATOM	202	O	LEU A	18140.936	6.512	2.396	1.00	0.00 O
ATOM	203	CB	LEU A	18139.758	4.170	1.335	1.00	0.00 C
ATOM	204	CG	LEU A	18138.859	3.033	0.845	1.00	0.00 C
ATOM	205	CD1	LEU A	18138.767	3.043	-0.673	1.00	0.00 C
ATOM	206	CD2	LEU A	18139.378	1.691	1.341	1.00	0.00 C
ATOM	207	H	LEU A	18137.684	5.482	2.074	1.00	0.00 H
ATOM	208	HA	LEU A	18139.558	3.778	3.429	1.00	0.00 H
ATOM	209	1HB	LEU A	18139.624	5.016	0.677	1.00	0.00 H
ATOM	210	2HB	LEU A	18140.784	3.841	1.268	1.00	0.00 H

ATOM	211	HG	LEU A	18137.863	3.174	1.239	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.705	3.382	-1.088	1.00	0.00	H
ATOM	213	2HD1	LEU A	18137.975	3.707	-0.982	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.559	2.043	-1.028	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.928	1.837	2.260	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.029	1.260	0.596	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.546	1.028	1.521	1.00	0.00	H
ATOM	218	N	GLU A	19140.986	5.564	4.436	1.00	0.00	N
ATOM	219	CA	GLU A	19141.989	6.485	4.959	1.00	0.00	C
ATOM	220	C	GLU A	19143.037	5.739	5.779	1.00	0.00	C
ATOM	221	O	GLU A	19142.979	4.517	5.913	1.00	0.00	O
ATOM	222	CB	GLU A	19141.325	7.562	5.819	1.00	0.00	C
ATOM	223	CG	GLU A	19140.463	7.001	6.937	1.00	0.00	C
ATOM	224	CD	GLU A	19139.402	7.979	7.402	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.434	8.369	8.589	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.541	8.356	6.581	1.00	0.00	O
ATOM	227	H	GLU A	19140.633	4.861	5.019	1.00	0.00	H
ATOM	228	HA	GLU A	19142.476	6.957	4.119	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.094	8.179	6.260	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.701	8.176	5.186	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.974	6.106	6.584	1.00	0.00	H
ATOM	232	2HG	GLU A	19141.098	6.756	7.776	1.00	0.00	H
ATOM	233	N	VAL A	20143.994	6.483	6.324	1.00	0.00	N
ATOM	234	CA	VAL A	20145.055	5.891	7.131	1.00	0.00	C
ATOM	235	C	VAL A	20144.481	5.136	8.326	1.00	0.00	C
ATOM	236	O	VAL A	20143.631	5.653	9.050	1.00	0.00	O
ATOM	237	CB	VAL A	20146.037	6.964	7.639	1.00	0.00	C

ATOM	238	CG1	VAL A	20147.209	6.320	8.365	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.525	7.828	6.485	1.00	0.00	C
ATOM	240	H	VAL A	20143.987	7.452	6.181	1.00	0.00	H
ATOM	241	HA	VAL A	20145.601	5.198	6.508	1.00	0.00	H
ATOM	242	HB	VAL A	20145.515	7.600	8.339	1.00	0.00	H
ATOM	243	1HG1	VAL A	20148.077	6.958	8.284	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.425	5.361	7.919	1.00	0.00	H
ATOM	245	3HG1	VAL A	20146.957	6.185	9.406	1.00	0.00	H
ATOM	246	1HG2	VAL A	20145.737	8.499	6.179	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.802	7.196	5.655	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.384	8.402	6.803	1.00	0.00	H
ATOM	249	N	GLY A	21144.950	3.908	8.525	1.00	0.00	N
ATOM	250	CA	GLY A	21144.472	3.102	9.631	1.00	0.00	C
ATOM	251	C	GLY A	21143.364	2.152	9.221	1.00	0.00	C
ATOM	252	O	GLY A	21143.223	1.069	9.789	1.00	0.00	O
ATOM	253	H	GLY A	21145.627	3.547	7.913	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.296	2.526	10.025	1.00	0.00	H
ATOM	255	2HA	GLY A	21144.102	3.757	10.406	1.00	0.00	H
ATOM	256	N	SER A	22142.573	2.559	8.232	1.00	0.00	N
ATOM	257	CA	SER A	22141.471	1.736	7.747	1.00	0.00	C
ATOM	258	C	SER A	22141.972	0.673	6.775	1.00	0.00	C
ATOM	259	O	SER A	22142.811	0.948	5.916	1.00	0.00	O
ATOM	260	CB	SER A	22140.417	2.611	7.066	1.00	0.00	C
ATOM	261	OG	SER A	22139.648	3.320	8.022	1.00	0.00	O
ATOM	262	H	SER A	22142.735	3.432	7.820	1.00	0.00	H
ATOM	263	HA	SER A	22141.024	1.246	8.598	1.00	0.00	H
ATOM	264	1HB	SER A	22140.907	3.322	6.417	1.00	0.00	H

ATOM	265	2HB	SER A	22139.756	1.986	6.482	1.00	0.00	H
ATOM	266	HG	SER A	22140.233	3.756	8.644	1.00	0.00	H
ATOM	267	N	LEU A	23141.454	-0.542	6.915	1.00	0.00	N
ATOM	268	CA	LEU A	23141.848	-1.647	6.049	1.00	0.00	C
ATOM	269	C	LEU A	23141.271	-1.474	4.649	1.00	0.00	C
ATOM	270	O	LEU A	23140.212	-0.873	4.474	1.00	0.00	O
ATOM	271	CB	LEU A	23141.386	-2.979	6.644	1.00	0.00	C
ATOM	272	CG	LEU A	23142.034	-3.354	7.977	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.095	-4.216	8.805	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.354	-4.074	7.743	1.00	0.00	C
ATOM	275	H	LEU A	23140.789	-0.700	7.620	1.00	0.00	H
ATOM	276	HA	LEU A	23142.926	-1.648	5.984	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.316	-2.931	6.788	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.602	-3.761	5.932	1.00	0.00	H
ATOM	279	HG	LEU A	23142.239	-2.452	8.537	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.088	-3.834	8.720	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.402	-4.193	9.840	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.125	-5.232	8.442	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.989	-3.950	8.607	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.843	-3.657	6.874	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.167	-5.125	7.581	1.00	0.00	H
ATOM	286	N	ALA A	24141.975	-2.007	3.654	1.00	0.00	N
ATOM	287	CA	ALA A	24141.532	-1.911	2.269	1.00	0.00	C
ATOM	288	C	ALA A	24142.129	-3.030	1.423	1.00	0.00	C
ATOM	289	O	ALA A	24142.995	-3.774	1.883	1.00	0.00	O
ATOM	290	CB	ALA A	24141.902	-0.554	1.689	1.00	0.00	C
ATOM	291	H	ALA A	24142.811	-2.474	3.858	1.00	0.00	H

ATOM	292	HA	ALA A	24140.455	-1.999	2.256	1.00	0.00	H
ATOM	293	1HB	ALA A	24142.966	-0.395	1.797	1.00	0.00	H
ATOM	294	2HB	ALA A	24141.367	0.221	2.216	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.638	-0.525	0.642	1.00	0.00	H
ATOM	296	N	GLU A	25141.660	-3.144	0.185	1.00	0.00	N
ATOM	297	CA	GLU A	25142.147	-4.174	-0.726	1.00	0.00	C
ATOM	298	C	GLU A	25142.482	-3.580	-2.090	1.00	0.00	C
ATOM	299	O	GLU A	25141.969	-2.524	-2.461	1.00	0.00	O
ATOM	300	CB	GLU A	25141.105	-5.282	-0.880	1.00	0.00	C
ATOM	301	CG	GLU A	25141.622	-6.505	-1.622	1.00	0.00	C
ATOM	302	CD	GLU A	25140.539	-7.537	-1.869	1.00	0.00	C
ATOM	303	OE1	GLU A	25139.448	-7.152	-2.336	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.785	-8.732	-1.597	1.00	0.00	O
ATOM	305	H	GLU A	25140.969	-2.522	-0.124	1.00	0.00	H
ATOM	306	HA	GLU A	25143.047	-4.594	-0.299	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.778	-5.594	0.100	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.258	-4.890	-1.424	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.022	-6.190	-2.575	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.407	-6.960	-1.035	1.00	0.00	H
ATOM	311	N	VAL A	26143.346	-4.266	-2.833	1.00	0.00	N
ATOM	312	CA	VAL A	26143.749	-3.806	-4.157	1.00	0.00	C
ATOM	313	C	VAL A	26143.397	-4.834	-5.227	1.00	0.00	C
ATOM	314	O	VAL A	26143.403	-6.038	-4.971	1.00	0.00	O
ATOM	315	CB	VAL A	26145.261	-3.520	-4.216	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.630	-2.857	-5.534	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.688	-2.657	-3.038	1.00	0.00	C
ATOM	318	H	VAL A	26143.721	-5.100	-2.482	1.00	0.00	H

ATOM	319	HA	VAL A	26143.221	-2.886	-4.366	1.00	0.00	H
ATOM	320	HB	VAL A	26145.788	-4.461	-4.153	1.00	0.00	H
ATOM	321	1HG1	VAL A	26144.767	-2.343	-5.931	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.957	-3.609	-6.236	1.00	0.00	H
ATOM	323	3HG1	VAL A	26146.427	-2.146	-5.370	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.118	-1.739	-3.039	1.00	0.00	H
ATOM	325	2HG2	VAL A	26146.740	-2.427	-3.122	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.508	-3.190	-2.117	1.00	0.00	H
ATOM	327	N	LYS A	27143.090	-4.350	-6.425	1.00	0.00	N
ATOM	328	CA	LYS A	27142.735	-5.226	-7.536	1.00	0.00	C
ATOM	329	C	LYS A	27143.971	-5.609	-8.343	1.00	0.00	C
ATOM	330	O	LYS A	27144.276	-4.991	-9.362	1.00	0.00	O
ATOM	331	CB	LYS A	27141.708	-4.544	-8.443	1.00	0.00	C
ATOM	332	CG	LYS A	27140.274	-4.963	-8.160	1.00	0.00	C
ATOM	333	CD	LYS A	27139.289	-4.199	-9.032	1.00	0.00	C
ATOM	334	CE	LYS A	27138.175	-5.101	-9.536	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.653	-6.038	-10.591	1.00	0.00	N
ATOM	336	H	LYS A	27143.103	-3.380	-6.567	1.00	0.00	H
ATOM	337	HA	LYS A	27142.297	-6.123	-7.123	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.781	-3.475	-8.309	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.934	-4.786	-9.470	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.171	-6.019	-8.360	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.050	-4.766	-7.122	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.855	-3.399	-8.451	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.818	-3.785	-9.879	1.00	0.00	H
ATOM	344	1HE	LYS A	27137.790	-5.675	-8.707	1.00	0.00	H
ATOM	345	2HE	LYS A	27137.388	-4.486	-9.945	1.00	0.00	H

ATOM	346	1HZ	LYS A	27139.312	-5.550	-11.231	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.849	-6.394	-11.145	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.145	-6.845	-10.156	1.00	0.00	H
ATOM	349	N	GLU A	28144.679	-6.635	-7.880	1.00	0.00	N
ATOM	350	CA	GLU A	28145.883	-7.101	-8.559	1.00	0.00	C
ATOM	351	C	GLU A	28145.850	-8.615	-8.743	1.00	0.00	C
ATOM	352	O	GLU A	28144.881	-9.276	-8.371	1.00	0.00	O
ATOM	353	CB	GLU A	28147.129	-6.694	-7.770	1.00	0.00	C
ATOM	354	CG	GLU A	28148.209	-6.054	-8.627	1.00	0.00	C
ATOM	355	CD	GLU A	28147.852	-4.643	-9.054	1.00	0.00	C
ATOM	356	OE1	GLU A	28147.828	-4.382	-10.276	1.00	0.00	O
ATOM	357	OE2	GLU A	28147.598	-3.801	-8.168	1.00	0.00	O
ATOM	358	H	GLU A	28144.386	-7.089	-7.063	1.00	0.00	H
ATOM	359	HA	GLU A	28145.915	-6.634	-9.532	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.842	-5.989	-7.005	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.548	-7.573	-7.299	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.127	-6.021	-8.060	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.355	-6.657	-9.511	1.00	0.00	H
ATOM	364	N	ASN A	29146.918	-9.159	-9.319	1.00	0.00	N
ATOM	365	CA	ASN A	29147.013	-10.595	-9.551	1.00	0.00	C
ATOM	366	C	ASN A	29147.022	-11.360	-8.230	1.00	0.00	C
ATOM	367	O	ASN A	29146.158	-12.203	-7.987	1.00	0.00	O
ATOM	368	CB	ASN A	29148.275	-10.920	-10.354	1.00	0.00	C
ATOM	369	CG	ASN A	29147.996	-11.056	-11.838	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.912	-12.164	-12.367	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.853	-9.925	-12.519	1.00	0.00	N
ATOM	372	H	ASN A	29147.660	-8.580	-9.594	1.00	0.00	H

ATOM	373	HA	ASN A	29146.146	-10.896	-10.121	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.997	-10.130	-10.214	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.691	-11.852	-9.998	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.934	-9.078	-12.031	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.672	-9.983	-13.480	1.00	0.00	H
ATOM	378	N	PRO A	30148.002	-11.075	-7.356	1.00	0.00	N
ATOM	379	CA	PRO A	30148.120	-11.741	-6.056	1.00	0.00	C
ATOM	380	C	PRO A	30147.114	-11.205	-5.038	1.00	0.00	C
ATOM	381	O	PRO A	30147.237	-10.072	-4.573	1.00	0.00	O
ATOM	382	CB	PRO A	30149.546	-11.404	-5.625	1.00	0.00	C
ATOM	383	CG	PRO A	30149.829	-10.088	-6.263	1.00	0.00	C
ATOM	384	CD	PRO A	30149.076	-10.083	-7.567	1.00	0.00	C
ATOM	385	HA	PRO A	30148.011	-12.810	-6.147	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.593	-11.340	-4.546	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.223	-12.167	-5.977	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.481	-9.289	-5.626	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.890	-9.989	-6.444	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.662	-9.105	-7.757	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.722	-10.382	-8.377	1.00	0.00	H
ATOM	392	N	PRO A	31146.100	-12.014	-4.676	1.00	0.00	N
ATOM	393	CA	PRO A	31145.077	-11.606	-3.707	1.00	0.00	C
ATOM	394	C	PRO A	31145.637	-11.476	-2.293	1.00	0.00	C
ATOM	395	O	PRO A	31145.647	-12.440	-1.529	1.00	0.00	O
ATOM	396	CB	PRO A	31144.050	-12.738	-3.773	1.00	0.00	C
ATOM	397	CG	PRO A	31144.818	-13.920	-4.250	1.00	0.00	C
ATOM	398	CD	PRO A	31145.872	-13.382	-5.177	1.00	0.00	C
ATOM	399	HA	PRO A	31144.611	-10.675	-3.994	1.00	0.00	H

ATOM	400	1HB	PRO A	31143.633	-12.906	-2.791	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.263	-12.474	-4.464	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.278	-14.423	-3.411	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.163	-14.596	-4.779	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.773	-13.973	-5.109	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.507	-13.363	-6.193	1.00	0.00	H
ATOM	406	N	PHE A	32146.101	-10.278	-1.955	1.00	0.00	N
ATOM	407	CA	PHE A	32146.662	-10.020	-0.634	1.00	0.00	C
ATOM	408	C	PHE A	32145.773	-9.069	0.160	1.00	0.00	C
ATOM	409	O	PHE A	32144.803	-8.524	-0.368	1.00	0.00	O
ATOM	410	CB	PHE A	32148.070	-9.434	-0.760	1.00	0.00	C
ATOM	411	CG	PHE A	32148.162	-8.301	-1.742	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.899	-8.435	-2.907	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.511	-7.102	-1.499	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.985	-7.394	-3.813	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.593	-6.057	-2.400	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.331	-6.203	-3.558	1.00	0.00	C
ATOM	417	H	PHE A	32146.065	-9.548	-2.609	1.00	0.00	H
ATOM	418	HA	PHE A	32146.721	-10.962	-0.109	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.386	-9.064	0.204	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.748	-10.211	-1.083	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.409	-9.365	-3.107	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.933	-6.987	-0.593	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.563	-7.510	-4.717	1.00	0.00	H
ATOM	424	HE2	PHE A	32147.082	-5.128	-2.199	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.397	-5.389	-4.264	1.00	0.00	H
ATOM	426	N	TYR A	33146.109	-8.875	1.431	1.00	0.00	N

ATOM	427	CA	TYR A	33145.340	-7.989	2.298	1.00	0.00	C
ATOM	428	C	TYR A	33146.263	-7.088	3.112	1.00	0.00	C
ATOM	429	O	TYR A	33147.282	-7.538	3.635	1.00	0.00	O
ATOM	430	CB	TYR A	33144.448	-8.807	3.236	1.00	0.00	C
ATOM	431	CG	TYR A	33143.132	-9.218	2.616	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.336	-8.293	1.954	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.687	-10.531	2.692	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.131	-8.664	1.386	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.485	-10.911	2.126	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.711	-9.974	1.474	1.00	0.00	C
ATOM	437	OH	TYR A	33139.514	-10.348	0.910	1.00	0.00	O
ATOM	438	H	TYR A	33146.892	-9.337	1.795	1.00	0.00	H
ATOM	439	HA	TYR A	33144.715	-7.371	1.670	1.00	0.00	H
ATOM	440	1HB	TYR A	33144.972	-9.705	3.527	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.233	-8.221	4.117	1.00	0.00	H
ATOM	442	HD1	TYR A	33142.667	-7.267	1.885	1.00	0.00	H
ATOM	443	HD2	TYR A	33143.295	-11.264	3.203	1.00	0.00	H
ATOM	444	HE1	TYR A	33140.527	-7.930	0.875	1.00	0.00	H
ATOM	445	HE2	TYR A	33141.156	-11.937	2.196	1.00	0.00	H
ATOM	446	HH	TYR A	33139.057	-10.955	1.498	1.00	0.00	H
ATOM	447	N	GLY A	34145.899	-5.814	3.214	1.00	0.00	N
ATOM	448	CA	GLY A	34146.705	-4.871	3.966	1.00	0.00	C
ATOM	449	C	GLY A	34145.905	-3.675	4.442	1.00	0.00	C
ATOM	450	O	GLY A	34144.740	-3.513	4.077	1.00	0.00	O
ATOM	451	H	GLY A	34145.075	-5.513	2.776	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.123	-5.375	4.825	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.511	-4.524	3.338	1.00	0.00	H

ATOM	454	N	VAL A	35146.531	-2.835	5.261	1.00	0.00	N
ATOM	455	CA	VAL A	35145.870	-1.647	5.789	1.00	0.00	C
ATOM	456	C	VAL A	35146.552	-0.375	5.292	1.00	0.00	C
ATOM	457	O	VAL A	35147.766	-0.345	5.095	1.00	0.00	O
ATOM	458	CB	VAL A	35145.861	-1.649	7.330	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.281	-1.641	7.878	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.069	-0.464	7.864	1.00	0.00	C
ATOM	461	H	VAL A	35147.459	-3.018	5.515	1.00	0.00	H
ATOM	462	HA	VAL A	35144.846	-1.653	5.443	1.00	0.00	H
ATOM	463	HB	VAL A	35145.378	-2.556	7.665	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.861	-0.890	7.361	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.730	-2.611	7.726	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.259	-1.415	8.934	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.397	-0.107	7.098	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.749	0.326	8.144	1.00	0.00	H
ATOM	469	3HG2	VAL A	35144.500	-0.772	8.729	1.00	0.00	H
ATOM	470	N	ILE A	36145.761	0.675	5.093	1.00	0.00	N
ATOM	471	CA	ILE A	36146.289	1.949	4.620	1.00	0.00	C
ATOM	472	C	ILE A	36147.261	2.548	5.632	1.00	0.00	C
ATOM	473	O	ILE A	36147.108	2.361	6.840	1.00	0.00	O
ATOM	474	CB	ILE A	36145.160	2.962	4.345	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.100	2.342	3.431	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.726	4.232	3.724	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.962	3.283	3.101	1.00	0.00	C
ATOM	478	H	ILE A	36144.801	0.591	5.268	1.00	0.00	H
ATOM	479	HA	ILE A	36146.816	1.768	3.695	1.00	0.00	H
ATOM	480	HB	ILE A	36144.704	3.224	5.288	1.00	0.00	H

ATOM	481	1HG1	ILE A	36144.564	2.046	2.502	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.683	1.472	3.913	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.440	4.677	4.402	1.00	0.00	H
ATOM	484	2HG2	ILE A	36144.923	4.930	3.538	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.216	3.989	2.794	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.360	4.209	2.712	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.390	3.485	3.995	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.321	2.827	2.360	1.00	0.00	H
ATOM	489	N	ARG A	37148.260	3.266	5.132	1.00	0.00	N
ATOM	490	CA	ARG A	37149.257	3.890	5.993	1.00	0.00	C
ATOM	491	C	ARG A	37149.449	5.360	5.629	1.00	0.00	C
ATOM	492	O	ARG A	37149.125	6.251	6.413	1.00	0.00	O
ATOM	493	CB	ARG A	37150.590	3.149	5.885	1.00	0.00	C
ATOM	494	CG	ARG A	37150.463	1.645	6.063	1.00	0.00	C
ATOM	495	CD	ARG A	37150.492	1.254	7.532	1.00	0.00	C
ATOM	496	NE	ARG A	37149.280	1.671	8.234	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.190	1.779	9.558	1.00	0.00	C
ATOM	498	NH1	ARG A	37150.236	1.502	10.326	1.00	0.00	N
ATOM	499	NH2	ARG A	37148.049	2.166	10.114	1.00	0.00	N
ATOM	500	H	ARG A	37148.330	3.378	4.161	1.00	0.00	H
ATOM	501	HA	ARG A	37148.903	3.828	7.011	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.018	3.340	4.912	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.261	3.524	6.644	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.529	1.318	5.633	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.286	1.161	5.556	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.587	0.181	7.604	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.345	1.722	7.999	1.00	0.00	H

ATOM	508	HE	ARG A	37148.493	1.881	7.691	1.00	0.00	H
ATOM	509	1HH1	ARG A	37151.098	1.209	9.913	1.00	0.00	H
ATOM	510	2HH1	ARG A	37150.161	1.585	11.320	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.259	2.376	9.540	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.982	2.247	11.108	1.00	0.00	H
ATOM	513	N	TRP A	38149.977	5.605	4.434	1.00	0.00	N
ATOM	514	CA	TRP A	38150.210	6.967	3.968	1.00	0.00	C
ATOM	515	C	TRP A	38149.461	7.233	2.665	1.00	0.00	C
ATOM	516	O	TRP A	38149.556	6.459	1.712	1.00	0.00	O
ATOM	517	CB	TRP A	38151.709	7.216	3.772	1.00	0.00	C
ATOM	518	CG	TRP A	38152.013	8.486	3.032	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.250	9.716	3.576	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.100	8.650	1.612	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.480	10.635	2.580	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.395	10.004	1.365	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.959	7.782	0.525	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.550	10.509	0.076	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.114	8.285	-0.753	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.406	9.637	-0.968	1.00	0.00	C
ATOM	527	H	TRP A	38150.215	4.852	3.852	1.00	0.00	H
ATOM	528	HA	TRP A	38149.839	7.642	4.724	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.188	7.272	4.739	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.134	6.395	3.212	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.253	9.922	4.636	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.676	11.585	2.716	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.734	6.737	0.672	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.772	11.549	-0.107	1.00	0.00	H

ATOM	535	HZ3 TRP A	38152.009	7.629	-1.604	1.00	0.00	H
ATOM	536	HH2 TRP A	38152.519	9.986	-1.984	1.00	0.00	H
ATOM	537	N ILE A	39148.726	8.338	2.631	1.00	0.00	N
ATOM	538	CA ILE A	39147.967	8.719	1.446	1.00	0.00	C
ATOM	539	C ILE A	39148.411	10.088	0.940	1.00	0.00	C
ATOM	540	O ILE A	39148.093	11.113	1.541	1.00	0.00	O
ATOM	541	CB ILE A	39146.454	8.753	1.731	1.00	0.00	C
ATOM	542	CG1 ILE A	39146.012	7.460	2.417	1.00	0.00	C
ATOM	543	CG2 ILE A	39145.675	8.969	0.442	1.00	0.00	C
ATOM	544	CD1 ILE A	39144.676	7.574	3.117	1.00	0.00	C
ATOM	545	H ILE A	39148.697	8.917	3.421	1.00	0.00	H
ATOM	546	HA ILE A	39148.154	7.983	0.677	1.00	0.00	H
ATOM	547	HB ILE A	39146.253	9.587	2.386	1.00	0.00	H
ATOM	548	1HG1 ILE A	39145.933	6.677	1.678	1.00	0.00	H
ATOM	549	2HG1 ILE A	39146.751	7.181	3.154	1.00	0.00	H
ATOM	550	1HG2 ILE A	39144.625	8.799	0.623	1.00	0.00	H
ATOM	551	2HG2 ILE A	39146.028	8.278	-0.310	1.00	0.00	H
ATOM	552	3HG2 ILE A	39145.822	9.982	0.098	1.00	0.00	H
ATOM	553	1HD1 ILE A	39144.179	8.477	2.800	1.00	0.00	H
ATOM	554	2HD1 ILE A	39144.830	7.604	4.186	1.00	0.00	H
ATOM	555	3HD1 ILE A	39144.064	6.719	2.866	1.00	0.00	H
ATOM	556	N GLY A	40149.152	10.097	-0.164	1.00	0.00	N
ATOM	557	CA GLY A	40149.630	11.349	-0.720	1.00	0.00	C
ATOM	558	C GLY A	40150.140	11.202	-2.140	1.00	0.00	C
ATOM	559	O GLY A	40149.996	10.144	-2.755	1.00	0.00	O
ATOM	560	H GLY A	40149.379	9.250	-0.599	1.00	0.00	H
ATOM	561	1HA GLY A	40148.823	12.064	-0.713	1.00	0.00	H

ATOM	562	2HA	GLY A	40150.431	11.721	-0.100	1.00	0.00	H
ATOM	563	N	GLN A	41150.738	12.268	-2.659	1.00	0.00	N
ATOM	564	CA	GLN A	41151.275	12.266	-4.014	1.00	0.00	C
ATOM	565	C	GLN A	41152.744	12.682	-4.013	1.00	0.00	C
ATOM	566	O	GLN A	41153.073	13.816	-3.661	1.00	0.00	O
ATOM	567	CB	GLN A	41150.463	13.213	-4.899	1.00	0.00	C
ATOM	568	CG	GLN A	41148.960	13.014	-4.785	1.00	0.00	C
ATOM	569	CD	GLN A	41148.199	14.324	-4.770	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.192	15.042	-3.770	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.550	14.643	-5.884	1.00	0.00	N
ATOM	572	H	GLN A	41150.820	13.080	-2.117	1.00	0.00	H
ATOM	573	HA	GLN A	41151.192	11.264	-4.405	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.692	14.230	-4.618	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.750	13.060	-5.927	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.623	12.428	-5.626	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.750	12.481	-3.869	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.599	14.024	-6.642	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.049	15.485	-5.903	1.00	0.00	H
ATOM	580	N	PRO A	42153.655	11.772	-4.405	1.00	0.00	N
ATOM	581	CA	PRO A	42155.092	12.061	-4.440	1.00	0.00	C
ATOM	582	C	PRO A	42155.420	13.259	-5.326	1.00	0.00	C
ATOM	583	O	PRO A	42154.629	13.637	-6.191	1.00	0.00	O
ATOM	584	CB	PRO A	42155.706	10.783	-5.022	1.00	0.00	C
ATOM	585	CG	PRO A	42154.698	9.719	-4.754	1.00	0.00	C
ATOM	586	CD	PRO A	42153.361	10.395	-4.841	1.00	0.00	C
ATOM	587	HA	PRO A	42155.484	12.233	-3.448	1.00	0.00	H
ATOM	588	1HB	PRO A	42155.874	10.911	-6.081	1.00	0.00	H

ATOM	589	2HB	PRO A	42156.642	10.573	-4.526	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.776	8.942	-5.499	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.848	9.311	-3.765	1.00	0.00	H
ATOM	592	1HD	PRO A	42152.996	10.381	-5.857	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.653	9.922	-4.176	1.00	0.00	H
ATOM	594	N	PRO A	43156.595	13.876	-5.121	1.00	0.00	N
ATOM	595	CA	PRO A	43157.024	15.037	-5.905	1.00	0.00	C
ATOM	596	C	PRO A	43157.402	14.663	-7.333	1.00	0.00	C
ATOM	597	O	PRO A	43158.567	14.392	-7.627	1.00	0.00	O
ATOM	598	CB	PRO A	43158.249	15.545	-5.146	1.00	0.00	C
ATOM	599	CG	PRO A	43158.788	14.344	-4.449	1.00	0.00	C
ATOM	600	CD	PRO A	43157.597	13.489	-4.110	1.00	0.00	C
ATOM	601	HA	PRO A	43156.264	15.804	-5.924	1.00	0.00	H
ATOM	602	1HB	PRO A	43158.965	15.950	-5.847	1.00	0.00	H
ATOM	603	2HB	PRO A	43157.951	16.307	-4.443	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.457	13.808	-5.107	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.304	14.642	-3.549	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.847	12.442	-4.196	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.244	13.713	-3.114	1.00	0.00	H
ATOM	608	N	GLY A	44156.412	14.650	-8.219	1.00	0.00	N
ATOM	609	CA	GLY A	44156.666	14.309	-9.605	1.00	0.00	C
ATOM	610	C	GLY A	44155.424	13.817	-10.320	1.00	0.00	C
ATOM	611	O	GLY A	44155.089	14.302	-11.401	1.00	0.00	O
ATOM	612	H	GLY A	44155.503	14.876	-7.929	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.039	15.183	-10.117	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.418	13.535	-9.641	1.00	0.00	H
ATOM	615	N	LEU A	45154.738	12.852	-9.716	1.00	0.00	N

ATOM	616	CA	LEU A	45153.525	12.298	-10.306	1.00	0.00	C
ATOM	617	C	LEU A	45152.337	12.469	-9.368	1.00	0.00	C
ATOM	618	O	LEU A	45152.290	11.867	-8.297	1.00	0.00	O
ATOM	619	CB	LEU A	45153.722	10.815	-10.630	1.00	0.00	C
ATOM	620	CG	LEU A	45154.338	9.984	-9.503	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.029	8.505	-9.697	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.842	10.216	-9.432	1.00	0.00	C
ATOM	623	H	LEU A	45155.053	12.507	-8.852	1.00	0.00	H
ATOM	624	HA	LEU A	45153.326	12.833	-11.222	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.760	10.391	-10.877	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.364	10.739	-11.495	1.00	0.00	H
ATOM	627	HG	LEU A	45153.907	10.292	-8.561	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.531	8.361	-10.644	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.386	8.164	-8.898	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.949	7.939	-9.684	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.072	10.818	-8.566	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.170	10.728	-10.324	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.351	9.266	-9.355	1.00	0.00	H
ATOM	634	N	ASN A	46151.375	13.292	-9.776	1.00	0.00	N
ATOM	635	CA	ASN A	46150.192	13.528	-8.962	1.00	0.00	C
ATOM	636	C	ASN A	46149.268	12.316	-9.000	1.00	0.00	C
ATOM	637	O	ASN A	46148.624	12.044	-10.013	1.00	0.00	O
ATOM	638	CB	ASN A	46149.446	14.769	-9.454	1.00	0.00	C
ATOM	639	CG	ASN A	46148.709	15.484	-8.339	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.479	15.539	-8.328	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.460	16.036	-7.393	1.00	0.00	N
ATOM	642	H	ASN A	46151.462	13.744	-10.641	1.00	0.00	H

ATOM	643	HA	ASN A	46150.513	13.691	-7.944	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.154	15.457	-9.891	1.00	0.00	H
ATOM	645	2HB	ASN A	46148.727	14.474	-10.206	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.433	15.953	-7.468	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.009	16.505	-6.660	1.00	0.00	H
ATOM	648	N	GLU A	47149.212	11.591	-7.889	1.00	0.00	N
ATOM	649	CA	GLU A	47148.370	10.404	-7.789	1.00	0.00	C
ATOM	650	C	GLU A	47148.235	9.958	-6.339	1.00	0.00	C
ATOM	651	O	GLU A	47149.230	9.655	-5.679	1.00	0.00	O
ATOM	652	CB	GLU A	47148.948	9.266	-8.634	1.00	0.00	C
ATOM	653	CG	GLU A	47150.467	9.182	-8.595	1.00	0.00	C
ATOM	654	CD	GLU A	47151.033	8.332	-9.715	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.096	8.825	-10.861	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.415	7.173	-9.446	1.00	0.00	O
ATOM	657	H	GLU A	47149.752	11.859	-7.117	1.00	0.00	H
ATOM	658	HA	GLU A	47147.392	10.660	-8.167	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.550	8.329	-8.275	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.645	9.405	-9.662	1.00	0.00	H
ATOM	661	1HG	GLU A	47150.872	10.179	-8.681	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.768	8.755	-7.650	1.00	0.00	H
ATOM	663	N	VAL A	48147.003	9.912	-5.846	1.00	0.00	N
ATOM	664	CA	VAL A	48146.751	9.495	-4.473	1.00	0.00	C
ATOM	665	C	VAL A	48147.166	8.044	-4.268	1.00	0.00	C
ATOM	666	O	VAL A	48146.436	7.121	-4.633	1.00	0.00	O
ATOM	667	CB	VAL A	48145.266	9.655	-4.096	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.057	9.375	-2.616	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.768	11.047	-4.457	1.00	0.00	C

ATOM	670	H	VAL A	48146.248	10.161	-6.418	1.00	0.00	H
ATOM	671	HA	VAL A	48147.340	10.123	-3.819	1.00	0.00	H
ATOM	672	HB	VAL A	48144.693	8.934	-4.661	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.200	8.321	-2.425	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.055	9.659	-2.334	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.769	9.945	-2.037	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.443	11.500	-5.168	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.724	11.656	-3.566	1.00	0.00	H
ATOM	678	3HG2	VAL A	48143.783	10.975	-4.893	1.00	0.00	H
ATOM	679	N	LEU A	49148.343	7.846	-3.684	1.00	0.00	N
ATOM	680	CA	LEU A	49148.856	6.506	-3.434	1.00	0.00	C
ATOM	681	C	LEU A	49148.772	6.164	-1.953	1.00	0.00	C
ATOM	682	O	LEU A	49149.439	6.784	-1.124	1.00	0.00	O
ATOM	683	CB	LEU A	49150.304	6.392	-3.915	1.00	0.00	C
ATOM	684	CG	LEU A	49150.503	6.575	-5.421	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.948	6.937	-5.729	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.097	5.313	-6.168	1.00	0.00	C
ATOM	687	H	LEU A	49148.880	8.621	-3.416	1.00	0.00	H
ATOM	688	HA	LEU A	49148.246	5.808	-3.988	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.892	7.140	-3.402	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.677	5.416	-3.642	1.00	0.00	H
ATOM	691	HG	LEU A	49149.875	7.384	-5.765	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.984	7.547	-6.619	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.519	6.035	-5.886	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.366	7.487	-4.898	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.362	4.774	-5.589	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.966	4.689	-6.318	1.00	0.00	H

ATOM	697	3HD2	LEU A	49149.676	5.581	-7.125	1.00	0.00	H
ATOM	698	N	ALA A	50147.948	5.176	-1.625	1.00	0.00	N
ATOM	699	CA	ALA A	50147.780	4.758	-0.242	1.00	0.00	C
ATOM	700	C	ALA A	50148.746	3.631	0.112	1.00	0.00	C
ATOM	701	O	ALA A	50148.657	2.531	-0.433	1.00	0.00	O
ATOM	702	CB	ALA A	50146.342	4.325	0.007	1.00	0.00	C
ATOM	703	H	ALA A	50147.443	4.719	-2.329	1.00	0.00	H
ATOM	704	HA	ALA A	50147.989	5.610	0.387	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.712	4.691	-0.789	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.003	4.728	0.949	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.292	3.246	0.039	1.00	0.00	H
ATOM	708	N	GLY A	51149.668	3.914	1.025	1.00	0.00	N
ATOM	709	CA	GLY A	51150.637	2.915	1.434	1.00	0.00	C
ATOM	710	C	GLY A	51150.011	1.789	2.232	1.00	0.00	C
ATOM	711	O	GLY A	51149.679	1.961	3.406	1.00	0.00	O
ATOM	712	H	GLY A	51149.691	4.808	1.425	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.104	2.499	0.553	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.396	3.391	2.039	1.00	0.00	H
ATOM	715	N	LEU A	52149.848	0.634	1.596	1.00	0.00	N
ATOM	716	CA	LEU A	52149.257	-0.524	2.256	1.00	0.00	C
ATOM	717	C	LEU A	52150.331	-1.381	2.919	1.00	0.00	C
ATOM	718	O	LEU A	52151.450	-1.488	2.418	1.00	0.00	O
ATOM	719	CB	LEU A	52148.468	-1.365	1.248	1.00	0.00	C
ATOM	720	CG	LEU A	52147.201	-0.702	0.703	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.592	-1.549	-0.403	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.196	-0.478	1.823	1.00	0.00	C
ATOM	723	H	LEU A	52150.133	0.558	0.662	1.00	0.00	H

ATOM	724	HA	LEU A	52148.581	-0.163	3.016	1.00	0.00	H
ATOM	725	1HB	LEU A	52149.119	-1.592	0.416	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.187	-2.291	1.726	1.00	0.00	H
ATOM	727	HG	LEU A	52147.458	0.260	0.284	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.403	-2.546	-0.032	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.276	-1.599	-1.237	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.663	-1.103	-0.726	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.362	-1.202	2.607	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.194	-0.592	1.434	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.316	0.519	2.220	1.00	0.00	H
ATOM	734	N	GLU A	53149.982	-1.988	4.049	1.00	0.00	N
ATOM	735	CA	GLU A	53150.916	-2.836	4.781	1.00	0.00	C
ATOM	736	C	GLU A	53150.448	-4.287	4.782	1.00	0.00	C
ATOM	737	O	GLU A	53149.515	-4.649	5.499	1.00	0.00	O
ATOM	738	CB	GLU A	53151.069	-2.336	6.219	1.00	0.00	C
ATOM	739	CG	GLU A	53152.057	-3.146	7.042	1.00	0.00	C
ATOM	740	CD	GLU A	53151.571	-3.395	8.457	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.282	-4.563	8.789	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.482	-2.420	9.234	1.00	0.00	O
ATOM	743	H	GLU A	53149.075	-1.864	4.398	1.00	0.00	H
ATOM	744	HA	GLU A	53151.874	-2.779	4.286	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.407	-1.311	6.198	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.107	-2.379	6.707	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.212	-4.099	6.560	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.994	-2.610	7.088	1.00	0.00	H
ATOM	749	N	LEU A	54151.103	-5.114	3.974	1.00	0.00	N
ATOM	750	CA	LEU A	54150.754	-6.527	3.881	1.00	0.00	C

ATOM	751	C	LEU A	54151.046	-7.247	5.194	1.00	0.00	C
ATOM	752	O	LEU A	54152.057	-6.982	5.846	1.00	0.00	O
ATOM	753	CB	LEU A	54151.524	-7.191	2.739	1.00	0.00	C
ATOM	754	CG	LEU A	54151.324	-6.552	1.364	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.297	-7.140	0.354	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.889	-6.740	0.895	1.00	0.00	C
ATOM	757	H	LEU A	54151.838	-4.767	3.426	1.00	0.00	H
ATOM	758	HA	LEU A	54149.696	-6.594	3.676	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.578	-7.160	2.978	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.219	-8.225	2.679	1.00	0.00	H
ATOM	761	HG	LEU A	54151.517	-5.492	1.435	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.308	-8.216	0.449	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.288	-6.753	0.542	1.00	0.00	H
ATOM	764	3HD1	LEU A	54151.988	-6.870	-0.644	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.541	-7.721	1.183	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.846	-6.644	-0.180	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.260	-5.988	1.349	1.00	0.00	H
ATOM	768	N	GLU A	55150.156	-8.157	5.576	1.00	0.00	N
ATOM	769	CA	GLU A	55150.320	-8.914	6.811	1.00	0.00	C
ATOM	770	C	GLU A	55151.395	-9.986	6.655	1.00	0.00	C
ATOM	771	O	GLU A	55152.090	-10.325	7.612	1.00	0.00	O
ATOM	772	CB	GLU A	55148.994	-9.562	7.217	1.00	0.00	C
ATOM	773	CG	GLU A	55147.871	-8.562	7.436	1.00	0.00	C
ATOM	774	CD	GLU A	55147.824	-8.042	8.859	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.921	-8.458	9.615	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.691	-7.217	9.219	1.00	0.00	O
ATOM	777	H	GLU A	55149.372	-8.323	5.014	1.00	0.00	H

ATOM	778	HA	GLU A	55150.625	-8.225	7.584	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.689	-10.248	6.441	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.142	-10.112	8.134	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.015	-7.726	6.769	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.930	-9.042	7.213	1.00	0.00	H
ATOM	783	N	ASP A	56151.525	-10.513	5.442	1.00	0.00	N
ATOM	784	CA	ASP A	56152.516	-11.547	5.161	1.00	0.00	C
ATOM	785	C	ASP A	56153.811	-10.931	4.642	1.00	0.00	C
ATOM	786	O	ASP A	56153.807	-10.183	3.665	1.00	0.00	O
ATOM	787	CB	ASP A	56151.967	-12.544	4.140	1.00	0.00	C
ATOM	788	CG	ASP A	56152.412	-13.965	4.423	1.00	0.00	C
ATOM	789	OD1	ASP A	56153.373	-14.428	3.773	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.800	-14.618	5.295	1.00	0.00	O
ATOM	791	H	ASP A	56150.941	-10.202	4.719	1.00	0.00	H
ATOM	792	HA	ASP A	56152.723	-12.067	6.085	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.887	-12.516	4.162	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.310	-12.268	3.155	1.00	0.00	H
ATOM	795	N	GLU A	57154.919	-11.252	5.303	1.00	0.00	N
ATOM	796	CA	GLU A	57156.222	-10.731	4.908	1.00	0.00	C
ATOM	797	C	GLU A	57156.628	-11.260	3.536	1.00	0.00	C
ATOM	798	O	GLU A	57157.106	-12.388	3.411	1.00	0.00	O
ATOM	799	CB	GLU A	57157.282	-11.108	5.946	1.00	0.00	C
ATOM	800	CG	GLU A	57157.377	-10.126	7.102	1.00	0.00	C
ATOM	801	CD	GLU A	57158.593	-10.371	7.975	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.766	-11.514	8.445	1.00	0.00	O
ATOM	803	OE2	GLU A	57159.372	-9.418	8.188	1.00	0.00	O
ATOM	804	H	GLU A	57154.858	-11.854	6.074	1.00	0.00	H

ATOM	805	HA	GLU A	57156.148	-9.655	4.858	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.044	-12.082	6.347	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.245	-11.154	5.460	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.436	-9.124	6.703	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.490	-10.219	7.711	1.00	0.00	H
ATOM	810	N	CYS A	58156.432	-10.439	2.510	1.00	0.00	N
ATOM	811	CA	CYS A	58156.777	-10.825	1.146	1.00	0.00	C
ATOM	812	C	CYS A	58158.157	-10.301	0.765	1.00	0.00	C
ATOM	813	O	CYS A	58158.426	-9.103	0.859	1.00	0.00	O
ATOM	814	CB	CYS A	58155.730	-10.297	0.164	1.00	0.00	C
ATOM	815	SG	CYS A	58155.833	-11.026	-1.487	1.00	0.00	S
ATOM	816	H	CYS A	58156.047	-9.553	2.673	1.00	0.00	H
ATOM	817	HA	CYS A	58156.789	-11.903	1.100	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.745	-10.506	0.553	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.851	-9.229	0.060	1.00	0.00	H
ATOM	820	HG	CYS A	58155.366	-10.449	-2.096	1.00	0.00	H
ATOM	821	N	ALAA	59159.031	-11.207	0.335	1.00	0.00	N
ATOM	822	CA	ALAA	59160.383	-10.836	-0.060	1.00	0.00	C
ATOM	823	C	ALAA	59160.374	-10.001	-1.337	1.00	0.00	C
ATOM	824	O	ALAA	59160.036	-10.496	-2.411	1.00	0.00	O
ATOM	825	CB	ALAA	59161.238	-12.081	-0.249	1.00	0.00	C
ATOM	826	H	ALAA	59158.758	-12.146	0.282	1.00	0.00	H
ATOM	827	HA	ALAA	59160.815	-10.250	0.738	1.00	0.00	H
ATOM	828	1HB	ALAA	59161.020	-12.524	-1.210	1.00	0.00	H
ATOM	829	2HB	ALAA	59161.015	-12.792	0.533	1.00	0.00	H
ATOM	830	3HB	ALAA	59162.282	-11.811	-0.205	1.00	0.00	H
ATOM	831	N	GLY A	60160.746	-8.732	-1.209	1.00	0.00	N

ATOM	832	CA	GLY A	60160.773	-7.848	-2.360	1.00	0.00	C
ATOM	833	C	GLY A	60160.174	-6.487	-2.062	1.00	0.00	C
ATOM	834	O	GLY A	60160.550	-5.488	-2.673	1.00	0.00	O
ATOM	835	H	GLY A	60161.005	-8.392	-0.328	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.797	-7.717	-2.677	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.215	-8.306	-3.165	1.00	0.00	H
ATOM	838	N	CYS A	61159.239	-6.449	-1.118	1.00	0.00	N
ATOM	839	CA	CYS A	61158.586	-5.201	-0.739	1.00	0.00	C
ATOM	840	C	CYS A	61159.505	-4.349	0.132	1.00	0.00	C
ATOM	841	O	CYS A	61160.621	-4.755	0.456	1.00	0.00	O
ATOM	842	CB	CYS A	61157.281	-5.490	0.005	1.00	0.00	C
ATOM	843	SG	CYS A	61156.114	-6.515	-0.920	1.00	0.00	S
ATOM	844	H	CYS A	61158.981	-7.280	-0.667	1.00	0.00	H
ATOM	845	HA	CYS A	61158.361	-4.657	-1.644	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.507	-6.002	0.928	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.791	-4.554	0.230	1.00	0.00	H
ATOM	848	HG	CYS A	61155.351	-6.675	-0.360	1.00	0.00	H
ATOM	849	N	THR A	62159.026	-3.168	0.508	1.00	0.00	N
ATOM	850	CA	THR A	62159.805	-2.260	1.342	1.00	0.00	C
ATOM	851	C	THR A	62159.217	-2.171	2.746	1.00	0.00	C
ATOM	852	O	THR A	62158.231	-2.839	3.059	1.00	0.00	O
ATOM	853	CB	THR A	62159.854	-0.868	0.708	1.00	0.00	C
ATOM	854	OG1	THR A	62158.550	-0.421	0.380	1.00	0.00	O
ATOM	855	CG2	THR A	62160.689	-0.814	-0.553	1.00	0.00	C
ATOM	856	H	THR A	62158.130	-2.901	0.218	1.00	0.00	H
ATOM	857	HA	THR A	62160.810	-2.650	1.410	1.00	0.00	H
ATOM	858	HB	THR A	62160.282	-0.176	1.418	1.00	0.00	H

ATOM	859	HG1 THR A	62158.188	-0.974	-0.315	1.00	0.00	H
ATOM	860	1HG2 THR A	62160.904	-1.819	-0.886	1.00	0.00	H
ATOM	861	2HG2 THR A	62161.615	-0.296	-0.349	1.00	0.00	H
ATOM	862	3HG2 THR A	62160.144	-0.288	-1.323	1.00	0.00	H
ATOM	863	N ASP A	63159.827	-1.342	3.587	1.00	0.00	N
ATOM	864	CA ASP A	63159.363	-1.166	4.958	1.00	0.00	C
ATOM	865	C ASP A	63158.671	0.182	5.130	1.00	0.00	C
ATOM	866	O ASP A	63158.779	0.818	6.178	1.00	0.00	O
ATOM	867	CB ASP A	63160.536	-1.278	5.934	1.00	0.00	C
ATOM	868	CG ASP A	63161.601	-0.229	5.680	1.00	0.00	C
ATOM	869	OD1 ASP A	63162.691	-0.596	5.192	1.00	0.00	O
ATOM	870	OD2 ASP A	63161.345	0.958	5.968	1.00	0.00	O
ATOM	871	H ASP A	63160.608	-0.838	3.278	1.00	0.00	H
ATOM	872	HA ASP A	63158.653	-1.952	5.171	1.00	0.00	H
ATOM	873	1HB ASP A	63160.170	-1.156	6.942	1.00	0.00	H
ATOM	874	2HB ASP A	63160.987	-2.255	5.834	1.00	0.00	H
ATOM	875	N GLY A	64157.960	0.612	4.093	1.00	0.00	N
ATOM	876	CA GLY A	64157.260	1.882	4.148	1.00	0.00	C
ATOM	877	C GLY A	64158.013	2.990	3.440	1.00	0.00	C
ATOM	878	O GLY A	64158.125	4.102	3.956	1.00	0.00	O
ATOM	879	H GLY A	64157.909	0.062	3.282	1.00	0.00	H
ATOM	880	1HA GLY A	64156.291	1.767	3.687	1.00	0.00	H
ATOM	881	2HA GLY A	64157.123	2.160	5.183	1.00	0.00	H
ATOM	882	N THR A	65158.529	2.687	2.253	1.00	0.00	N
ATOM	883	CA THR A	65159.276	3.667	1.472	1.00	0.00	C
ATOM	884	C THR A	65158.845	3.638	0.009	1.00	0.00	C
ATOM	885	O THR A	65158.797	2.578	-0.614	1.00	0.00	O

ATOM	886	CB	THR A	65160.778	3.398	1.578	1.00	0.00	C
ATOM	887	OG1	THR A	65161.034	2.006	1.641	1.00	0.00	O
ATOM	888	CG2	THR A	65161.415	4.039	2.791	1.00	0.00	C
ATOM	889	H	THR A	65158.406	1.784	1.894	1.00	0.00	H
ATOM	890	HA	THR A	65159.064	4.645	1.877	1.00	0.00	H
ATOM	891	HB	THR A	65161.266	3.793	0.700	1.00	0.00	H
ATOM	892	HG1	THR A	65160.910	1.618	0.773	1.00	0.00	H
ATOM	893	1HG2	THR A	65162.234	3.423	3.135	1.00	0.00	H
ATOM	894	2HG2	THR A	65160.681	4.133	3.577	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.788	5.018	2.527	1.00	0.00	H
ATOM	896	N	PHE A	66158.530	4.811	-0.533	1.00	0.00	N
ATOM	897	CA	PHE A	66158.103	4.921	-1.923	1.00	0.00	C
ATOM	898	C	PHE A	66159.010	5.872	-2.697	1.00	0.00	C
ATOM	899	O	PHE A	66159.157	7.039	-2.334	1.00	0.00	O
ATOM	900	CB	PHE A	66156.655	5.406	-1.996	1.00	0.00	C
ATOM	901	CG	PHE A	66155.978	5.083	-3.298	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.722	3.769	-3.654	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.598	6.094	-4.166	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.100	3.468	-4.851	1.00	0.00	C
ATOM	905	CE2	PHE A	66154.976	5.801	-5.364	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.726	4.486	-5.707	1.00	0.00	C
ATOM	907	H	PHE A	66158.588	5.621	0.015	1.00	0.00	H
ATOM	908	HA	PHE A	66158.168	3.939	-2.369	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.086	4.943	-1.204	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.635	6.478	-1.867	1.00	0.00	H
ATOM	911	HD1	PHE A	66156.014	2.973	-2.985	1.00	0.00	H
ATOM	912	HD2	PHE A	66155.792	7.123	-3.898	1.00	0.00	H

ATOM	913	HE1	PHE A	66154.907	2.440	-5.117	1.00	0.00	H
ATOM	914	HE2	PHE A	66154.684	6.598	-6.032	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.240	4.254	-6.643	1.00	0.00	H
ATOM	916	N	ARG A	67159.615	5.366	-3.767	1.00	0.00	N
ATOM	917	CA	ARG A	67160.508	6.172	-4.592	1.00	0.00	C
ATOM	918	C	ARG A	67161.689	6.684	-3.776	1.00	0.00	C
ATOM	919	O	ARG A	67162.217	7.765	-4.039	1.00	0.00	O
ATOM	920	CB	ARG A	67159.746	7.348	-5.204	1.00	0.00	C
ATOM	921	CG	ARG A	67158.677	6.930	-6.200	1.00	0.00	C
ATOM	922	CD	ARG A	67158.317	8.067	-7.143	1.00	0.00	C
ATOM	923	NE	ARG A	67159.015	7.958	-8.422	1.00	0.00	N
ATOM	924	CZ	ARG A	67159.160	8.970	-9.274	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.658	10.165	-8.989	1.00	0.00	N
ATOM	926	NH2	ARG A	67159.808	8.786	-10.417	1.00	0.00	N
ATOM	927	H	ARG A	67159.458	4.429	-4.006	1.00	0.00	H
ATOM	928	HA	ARG A	67160.881	5.543	-5.387	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.271	7.906	-4.411	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.449	7.991	-5.714	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.045	6.097	-6.780	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.792	6.629	-5.657	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.253	8.045	-7.322	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.585	9.003	-6.675	1.00	0.00	H
ATOM	935	HE	ARG A	67159.396	7.087	-8.657	1.00	0.00	H
ATOM	936	1HH1	ARG A	67158.168	10.311	-8.129	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.771	10.921	-9.634	1.00	0.00	H
ATOM	938	1HH2	ARG A	67160.188	7.888	-10.637	1.00	0.00	H
ATOM	939	2HH2	ARG A	67159.917	9.546	-11.058	1.00	0.00	H

ATOM	940	N	GLY A	68162.100	5.902	-2.783	1.00	0.00	N
ATOM	941	CA	GLY A	68163.216	6.295	-1.942	1.00	0.00	C
ATOM	942	C	GLY A	68162.847	7.392	-0.963	1.00	0.00	C
ATOM	943	O	GLY A	68163.696	8.189	-0.564	1.00	0.00	O
ATOM	944	H	GLY A	68161.641	5.052	-2.619	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.556	5.433	-1.389	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.020	6.645	-2.572	1.00	0.00	H
ATOM	947	N	THR A	69161.577	7.433	-0.576	1.00	0.00	N
ATOM	948	CA	THR A	69161.096	8.441	0.363	1.00	0.00	C
ATOM	949	C	THR A	69160.235	7.806	1.449	1.00	0.00	C
ATOM	950	O	THR A	69159.141	7.310	1.178	1.00	0.00	O
ATOM	951	CB	THR A	69160.297	9.515	-0.375	1.00	0.00	C
ATOM	952	OG1	THR A	69160.987	9.948	-1.533	1.00	0.00	O
ATOM	953	CG2	THR A	69160.010	10.737	0.472	1.00	0.00	C
ATOM	954	H	THR A	69160.947	6.771	-0.928	1.00	0.00	H
ATOM	955	HA	THR A	69161.957	8.900	0.825	1.00	0.00	H
ATOM	956	HB	THR A	69159.349	9.096	-0.682	1.00	0.00	H
ATOM	957	HG1	THR A	69161.176	9.193	-2.095	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.249	11.336	-0.006	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.913	11.319	0.579	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.665	10.425	1.447	1.00	0.00	H
ATOM	961	N	ARG A	70160.735	7.825	2.680	1.00	0.00	N
ATOM	962	CA	ARG A	70160.011	7.251	3.809	1.00	0.00	C
ATOM	963	C	ARG A	70158.731	8.032	4.087	1.00	0.00	C
ATOM	964	O	ARG A	70158.765	9.242	4.308	1.00	0.00	O
ATOM	965	CB	ARG A	70160.897	7.239	5.057	1.00	0.00	C
ATOM	966	CG	ARG A	70160.228	6.616	6.272	1.00	0.00	C

ATOM	967	CD	ARG A	70160.684	7.279	7.561	1.00	0.00	C
ATOM	968	NE	ARG A	70162.045	6.890	7.924	1.00	0.00	N
ATOM	969	CZ	ARG A	70162.802	7.562	8.789	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.336	8.654	9.381	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.028	7.139	9.064	1.00	0.00	N
ATOM	972	H	ARG A	70161.612	8.235	2.834	1.00	0.00	H
ATOM	973	HA	ARG A	70159.751	6.235	3.553	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.795	6.681	4.842	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.166	8.256	5.303	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.158	6.731	6.180	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.477	5.566	6.309	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.650	8.351	7.431	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.013	6.992	8.356	1.00	0.00	H
ATOM	980	HE	ARG A	70162.414	6.086	7.502	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.412	8.979	9.178	1.00	0.00	H
ATOM	982	2HH1	ARG A	70162.909	9.154	10.030	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.384	6.316	8.621	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.597	7.643	9.714	1.00	0.00	H
ATOM	985	N	TYR A	71157.602	7.330	4.076	1.00	0.00	N
ATOM	986	CA	TYR A	71156.310	7.957	4.327	1.00	0.00	C
ATOM	987	C	TYR A	71155.770	7.560	5.696	1.00	0.00	C
ATOM	988	O	TYR A	71155.270	8.400	6.446	1.00	0.00	O
ATOM	989	CB	TYR A	71155.309	7.566	3.238	1.00	0.00	C
ATOM	990	CG	TYR A	71155.424	8.400	1.981	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.529	9.784	2.050	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.426	7.802	0.727	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.635	10.548	0.905	1.00	0.00	C

ATOM	994	CE2 TYR A	71155.532	8.561	-0.424	1.00	0.00	C
ATOM	995	CZ TYR A	71155.635	9.933	-0.330	1.00	0.00	C
ATOM	996	OH TYR A	71155.740	10.691	-1.473	1.00	0.00	O
ATOM	997	H TYR A	71157.639	6.368	3.893	1.00	0.00	H
ATOM	998	HA TYR A	71156.451	9.028	4.306	1.00	0.00	H
ATOM	999	1HB TYR A	71155.468	6.533	2.966	1.00	0.00	H
ATOM	1000	2HB TYR A	71154.306	7.681	3.623	1.00	0.00	H
ATOM	1001	HD1 TYR A	71155.529	10.262	3.018	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.344	6.728	0.657	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.716	11.623	0.978	1.00	0.00	H
ATOM	1004	HE2 TYR A	71155.531	8.078	-1.390	1.00	0.00	H
ATOM	1005	HH TYR A	71156.629	10.616	-1.827	1.00	0.00	H
ATOM	1006	N PHE A	72155.873	6.274	6.017	1.00	0.00	N
ATOM	1007	CA PHE A	72155.395	5.765	7.298	1.00	0.00	C
ATOM	1008	C PHE A	72156.315	4.669	7.825	1.00	0.00	C
ATOM	1009	O PHE A	72157.106	4.095	7.077	1.00	0.00	O
ATOM	1010	CB PHE A	72153.969	5.226	7.156	1.00	0.00	C
ATOM	1011	CG PHE A	72153.833	4.157	6.110	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.929	2.818	6.453	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.609	4.491	4.785	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.804	1.832	5.493	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.483	3.510	3.820	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.581	2.178	4.174	1.00	0.00	C
ATOM	1017	H PHE A	72156.281	5.653	5.379	1.00	0.00	H
ATOM	1018	HA PHE A	72155.392	6.585	8.001	1.00	0.00	H
ATOM	1019	1HB PHE A	72153.655	4.809	8.101	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.311	6.039	6.890	1.00	0.00	H

ATOM	1021	HD1 PHE A	72154.104	2.546	7.484	1.00	0.00	H
ATOM	1022	HD2 PHE A	72153.533	5.532	4.507	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.881	0.792	5.773	1.00	0.00	H
ATOM	1024	HE2 PHE A	72153.309	3.784	2.789	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.483	1.410	3.423	1.00	0.00	H
ATOM	1026	N THR A	73156.207	4.384	9.119	1.00	0.00	N
ATOM	1027	CA THR A	73157.029	3.357	9.747	1.00	0.00	C
ATOM	1028	C THR A	73156.250	2.054	9.899	1.00	0.00	C
ATOM	1029	O THR A	73155.248	1.997	10.611	1.00	0.00	O
ATOM	1030	CB THR A	73157.520	3.832	11.114	1.00	0.00	C
ATOM	1031	OG1 THR A	73156.507	4.562	11.785	1.00	0.00	O
ATOM	1032	CG2 THR A	73158.746	4.716	11.036	1.00	0.00	C
ATOM	1033	H THR A	73155.558	4.877	9.665	1.00	0.00	H
ATOM	1034	HA THR A	73157.882	3.180	9.110	1.00	0.00	H
ATOM	1035	HB THR A	73157.771	2.969	11.716	1.00	0.00	H
ATOM	1036	HG1 THR A	73156.474	4.291	12.706	1.00	0.00	H
ATOM	1037	1HG2 THR A	73159.529	4.199	10.501	1.00	0.00	H
ATOM	1038	2HG2 THR A	73159.086	4.949	12.034	1.00	0.00	H
ATOM	1039	3HG2 THR A	73158.498	5.630	10.517	1.00	0.00	H
ATOM	1040	N CYS A	74156.717	1.009	9.222	1.00	0.00	N
ATOM	1041	CA CYS A	74156.065	-0.294	9.281	1.00	0.00	C
ATOM	1042	C CYS A	74157.095	-1.417	9.320	1.00	0.00	C
ATOM	1043	O CYS A	74158.301	-1.169	9.289	1.00	0.00	O
ATOM	1044	CB CYS A	74155.136	-0.478	8.080	1.00	0.00	C
ATOM	1045	SG CYS A	74153.445	0.096	8.360	1.00	0.00	S
ATOM	1046	H CYS A	74157.521	1.117	8.670	1.00	0.00	H
ATOM	1047	HA CYS A	74155.478	-0.329	10.188	1.00	0.00	H

ATOM	1048	1HB	CYS A	74155.534	0.072	7.241	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.091	-1.527	7.828	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.194	-0.147	9.254	1.00	0.00	H
ATOM	1051	N	ALAA	75156.613	-2.654	9.386	1.00	0.00	N
ATOM	1052	CA	ALAA	75157.492	-3.816	9.428	1.00	0.00	C
ATOM	1053	C	ALAA	75158.208	-4.011	8.096	1.00	0.00	C
ATOM	1054	O	ALAA	75157.739	-3.552	7.055	1.00	0.00	O
ATOM	1055	CB	ALAA	75156.700	-5.062	9.791	1.00	0.00	C
ATOM	1056	H	ALAA	75155.642	-2.787	9.407	1.00	0.00	H
ATOM	1057	HA	ALAA	75158.229	-3.648	10.200	1.00	0.00	H
ATOM	1058	1HB	ALAA	75157.137	-5.921	9.302	1.00	0.00	H
ATOM	1059	2HB	ALAA	75155.676	-4.945	9.467	1.00	0.00	H
ATOM	1060	3HB	ALAA	75156.725	-5.206	10.861	1.00	0.00	H
ATOM	1061	N	LEU A	76159.347	-4.695	8.137	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.129	-4.952	6.933	1.00	0.00	C
ATOM	1063	C	LEU A	76159.419	-5.953	6.027	1.00	0.00	C
ATOM	1064	O	LEU A	76158.846	-6.934	6.499	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.518	-5.476	7.303	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.487	-4.420	7.837	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.413	-5.024	8.882	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.291	-3.812	6.698	1.00	0.00	C
ATOM	1069	H	LEU A	76159.669	-5.036	8.997	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.236	-4.017	6.402	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.401	-6.242	8.056	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.956	-5.923	6.425	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.923	-3.629	8.309	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.579	-6.067	8.655	1.00	0.00	H

ATOM	1075	2HD1	LEU A	76162.961	-4.934	9.858	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76164.357	-4.499	8.873	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76162.802	-2.913	6.350	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.359	-4.522	5.886	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76164.284	-3.568	7.046	1.00	0.00	H
ATOM	1080	N	LYS A	77159.463	-5.699	4.723	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.826	-6.579	3.751	1.00	0.00	C
ATOM	1082	C	LYS A	77157.321	-6.654	3.991	1.00	0.00	C
ATOM	1083	O	LYS A	77156.714	-7.719	3.867	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.436	-7.980	3.821	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.953	-7.988	3.712	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.411	-7.675	2.296	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.908	-7.415	2.240	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.667	-8.625	1.820	1.00	0.00	N
ATOM	1089	H	LYS A	77159.937	-4.902	4.408	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.002	-6.168	2.768	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.163	-8.433	4.762	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.036	-8.576	3.014	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.357	-7.245	4.383	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.319	-8.966	3.991	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.177	-8.513	1.658	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.888	-6.797	1.945	1.00	0.00	H
ATOM	1097	1HE	LYS A	77163.096	-6.620	1.534	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.244	-7.112	3.221	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.116	-9.483	2.031	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77164.572	-8.674	2.329	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.857	-8.590	0.798	1.00	0.00	H

ATOM	1102	N	LYS A	78156.724	-5.518	4.334	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.290	-5.455	4.591	1.00	0.00	C
ATOM	1104	C	LYS A	78154.730	-4.086	4.219	1.00	0.00	C
ATOM	1105	O	LYS A	78153.888	-3.534	4.928	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.001	-5.755	6.063	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.529	-7.104	6.524	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.130	-7.398	7.961	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.930	-8.331	8.026	1.00	0.00	C
ATOM	1110	NZ	LYS A	78152.998	-7.961	9.126	1.00	0.00	N
ATOM	1111	H	LYS A	78157.261	-4.702	4.417	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.811	-6.205	3.980	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.457	-4.988	6.671	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.932	-5.739	6.219	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.126	-7.875	5.884	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.607	-7.101	6.452	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.962	-7.864	8.468	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.879	-6.470	8.452	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.401	-8.283	7.086	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.283	-9.339	8.188	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.591	-8.817	9.553	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.225	-7.371	8.757	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.505	-7.426	9.860	1.00	0.00	H
ATOM	1124	N	ALAA	79155.202	-3.543	3.101	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.749	-2.238	2.635	1.00	0.00	C
ATOM	1126	C	ALAA	79154.591	-2.223	1.118	1.00	0.00	C
ATOM	1127	O	ALAA	79155.576	-2.254	0.381	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.718	-1.153	3.077	1.00	0.00	C

ATOM	1129	H	ALA A	79155.872	-4.031	2.578	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.789	-2.038	3.088	1.00	0.00	H
ATOM	1131	1HB	ALA A	79155.189	-0.216	3.177	1.00	0.00	H
ATOM	1132	2HB	ALA A	79156.501	-1.048	2.341	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.152	-1.425	4.029	1.00	0.00	H
ATOM	1134	N	LEU A	80153.345	-2.174	0.658	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.058	-2.154	-0.771	1.00	0.00	C
ATOM	1136	C	LEU A	80152.216	-0.937	-1.140	1.00	0.00	C
ATOM	1137	O	LEU A	80151.022	-0.882	-0.847	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.330	-3.434	-1.184	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.917	-3.501	-2.655	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.133	-3.730	-3.540	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.885	-4.597	-2.871	1.00	0.00	C
ATOM	1142	H	LEU A	80152.600	-2.151	1.295	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.998	-2.100	-1.298	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.976	-4.275	-0.975	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.439	-3.528	-0.580	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.471	-2.559	-2.939	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.887	-4.268	-2.984	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.531	-2.777	-3.858	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80152.845	-4.307	-4.407	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80149.893	-4.181	-2.770	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80151.027	-5.374	-2.134	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80151.002	-5.012	-3.860	1.00	0.00	H
ATOM	1153	N	PHE A	81152.848	0.039	-1.786	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.157	1.256	-2.195	1.00	0.00	C
ATOM	1155	C	PHE A	81151.307	1.009	-3.437	1.00	0.00	C

ATOM	1156	O	PHE A	81151.705	0.267	-4.335	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.167	2.373	-2.469	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.932	2.803	-1.249	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.577	3.955	-0.564	1.00	0.00	C
ATOM	1160	CD2	PHE A	81155.004	2.057	-0.788	1.00	0.00	C
ATOM	1161	CE1	PHE A	81154.278	4.354	0.558	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.708	2.451	0.334	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.345	3.600	1.008	1.00	0.00	C
ATOM	1164	H	PHE A	81153.800	-0.062	-1.991	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.511	1.559	-1.385	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.881	2.030	-3.203	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.644	3.235	-2.856	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.742	4.544	-0.915	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.289	1.158	-1.315	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.992	5.253	1.082	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.543	1.860	0.683	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.895	3.910	1.884	1.00	0.00	H
ATOM	1173	N	VAL A	82150.136	1.635	-3.480	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.229	1.481	-4.612	1.00	0.00	C
ATOM	1175	C	VAL A	82148.290	2.677	-4.731	1.00	0.00	C
ATOM	1176	O	VAL A	82148.185	3.490	-3.813	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.392	0.195	-4.492	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.267	-1.034	-4.677	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.673	0.150	-3.151	1.00	0.00	C
ATOM	1180	H	VAL A	82149.874	2.213	-2.734	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.826	1.414	-5.510	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.648	0.200	-5.274	1.00	0.00	H

ATOM	1183	1HG1	VAL A	82149.980	-1.095	-3.866	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82149.796	-0.961	-5.616	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82148.650	-1.920	-4.680	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82146.739	-0.382	-3.261	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82147.476	1.157	-2.815	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.293	-0.357	-2.428	1.00	0.00	H
ATOM	1189	N	LYS A	83147.610	2.775	-5.868	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.677	3.871	-6.108	1.00	0.00	C
ATOM	1191	C	LYS A	83145.454	3.754	-5.206	1.00	0.00	C
ATOM	1192	O	LYS A	83144.760	2.738	-5.212	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.244	3.888	-7.574	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.383	4.164	-8.542	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.037	3.716	-9.953	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.527	4.712	-10.991	1.00	0.00	C
ATOM	1197	NZ	LYS A	83147.970	4.039	-12.243	1.00	0.00	N
ATOM	1198	H	LYS A	83147.736	2.095	-6.562	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.188	4.796	-5.882	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.815	2.929	-7.822	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.494	4.653	-7.708	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.585	5.225	-8.552	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.262	3.631	-8.210	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.501	2.760	-10.141	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.964	3.620	-10.037	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.723	5.394	-11.225	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.356	5.266	-10.576	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83147.466	3.137	-12.361	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83148.992	3.849	-12.204	1.00	0.00	H

ATOM	1210	3HZ	LYS A	83147.773	4.646	-13.064	1.00	0.00	H
ATOM	1211	N	LEU A	84145.197	4.803	-4.432	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.059	4.823	-3.523	1.00	0.00	C
ATOM	1213	C	LEU A	84142.750	4.654	-4.288	1.00	0.00	C
ATOM	1214	O	LEU A	84141.796	4.062	-3.782	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.039	6.133	-2.733	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.825	6.326	-1.822	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.924	5.419	-0.605	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.705	7.781	-1.396	1.00	0.00	C
ATOM	1219	H	LEU A	84145.789	5.582	-4.474	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.169	3.999	-2.834	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.931	6.175	-2.125	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.066	6.952	-3.437	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.930	6.059	-2.365	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84141.946	5.308	-0.159	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.600	5.855	0.115	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.294	4.450	-0.906	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.646	8.115	-0.986	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84141.931	7.874	-0.648	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.451	8.386	-2.254	1.00	0.00	H
ATOM	1230	N	LYS A	85142.712	5.177	-5.508	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.521	5.083	-6.343	1.00	0.00	C
ATOM	1232	C	LYS A	85141.210	3.630	-6.689	1.00	0.00	C
ATOM	1233	O	LYS A	85140.057	3.274	-6.936	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.707	5.896	-7.627	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.008	5.597	-8.352	1.00	0.00	C
ATOM	1236	CD	LYS A	85142.945	6.026	-9.810	1.00	0.00	C

ATOM	1237	CE	LYS A	85142.666	4.847	-10.728	1.00	0.00	C
ATOM	1238	NZ	LYS A	85143.868	4.463	-11.521	1.00	0.00	N
ATOM	1239	H	LYS A	85143.505	5.637	-5.856	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.693	5.494	-5.786	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.888	5.681	-8.297	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.691	6.947	-7.379	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.811	6.131	-7.866	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.200	4.535	-8.307	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.156	6.754	-9.927	1.00	0.00	H
ATOM	1246	2HD	LYS A	85143.890	6.470	-10.086	1.00	0.00	H
ATOM	1247	1HE	LYS A	85142.358	4.003	-10.129	1.00	0.00	H
ATOM	1248	2HE	LYS A	85141.869	5.116	-11.406	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85143.929	3.427	-11.599	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.729	4.815	-11.058	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85143.810	4.869	-12.477	1.00	0.00	H
ATOM	1252	N	SER A	86142.243	2.794	-6.705	1.00	0.00	N
ATOM	1253	CA	SER A	86142.077	1.380	-7.019	1.00	0.00	C
ATOM	1254	C	SER A	86142.051	0.539	-5.747	1.00	0.00	C
ATOM	1255	O	SER A	86142.486	-0.613	-5.743	1.00	0.00	O
ATOM	1256	CB	SER A	86143.205	0.904	-7.936	1.00	0.00	C
ATOM	1257	OG	SER A	86143.371	1.779	-9.038	1.00	0.00	O
ATOM	1258	H	SER A	86143.139	3.136	-6.500	1.00	0.00	H
ATOM	1259	HA	SER A	86141.134	1.264	-7.533	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.128	0.869	-7.378	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.972	-0.083	-8.308	1.00	0.00	H
ATOM	1262	HG	SER A	86142.512	1.998	-9.406	1.00	0.00	H
ATOM	1263	N	CYS A	87141.537	1.122	-4.669	1.00	0.00	N

ATOM	1264	CA	CYS A	87141.454	0.427	-3.390	1.00	0.00	C
ATOM	1265	C	CYS A	87140.001	0.231	-2.970	1.00	0.00	C
ATOM	1266	O	CYS A	87139.186	1.148	-3.073	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.207	1.208	-2.311	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.005	1.180	-2.501	1.00	0.00	S
ATOM	1269	H	CYS A	87141.206	2.042	-4.735	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.916	-0.542	-3.508	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.891	2.239	-2.337	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.972	0.788	-1.344	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.394	1.095	-1.627	1.00	0.00	H
ATOM	1274	N	ARG A	88139.683	-0.971	-2.498	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.328	-1.288	-2.063	1.00	0.00	C
ATOM	1276	C	ARG A	88138.292	-1.575	-0.563	1.00	0.00	C
ATOM	1277	O	ARG A	88139.234	-2.142	-0.010	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.790	-2.492	-2.839	1.00	0.00	C
ATOM	1279	CG	ARG A	88136.954	-2.109	-4.051	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.509	-2.558	-3.902	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.240	-3.791	-4.638	1.00	0.00	N
ATOM	1282	CZ	ARG A	88134.146	-4.531	-4.470	1.00	0.00	C
ATOM	1283	NH1	ARG A	88133.219	-4.168	-3.594	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.980	-5.638	-5.181	1.00	0.00	N
ATOM	1285	H	ARG A	88140.377	-1.660	-2.441	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.706	-0.430	-2.269	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.623	-3.088	-3.178	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.176	-3.087	-2.178	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.976	-1.035	-4.167	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.378	-2.575	-4.929	1.00	0.00	H

ATOM	1291	1HD	ARG A	88135.304	-2.724	-2.854	1.00	0.00	H
ATOM	1292	2HD	ARG A	88134.862	-1.778	-4.275	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.910	-4.082	-5.292	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.338	-3.334	-3.054	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88132.399	-4.728	-3.472	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88134.676	-5.917	-5.843	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88133.159	-6.194	-5.055	1.00	0.00	H
ATOM	1298	N	PRO A	89137.198	-1.187	0.118	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.048	-1.408	1.560	1.00	0.00	C
ATOM	1300	C	PRO A	89137.285	-2.863	1.950	1.00	0.00	C
ATOM	1301	O	PRO A	89136.808	-3.781	1.282	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.594	-1.013	1.832	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.252	-0.054	0.744	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.026	-0.505	-0.463	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.710	-0.771	2.128	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.967	-1.892	1.797	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.520	-0.549	2.803	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.191	-0.090	0.545	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.548	0.945	1.028	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.436	-1.189	-1.056	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.329	0.346	-1.055	1.00	0.00	H
ATOM	1312	N	ASP A	90138.026	-3.066	3.035	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.326	-4.409	3.514	1.00	0.00	C
ATOM	1314	C	ASP A	90137.405	-4.795	4.667	1.00	0.00	C
ATOM	1315	O	ASP A	90137.387	-4.137	5.706	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.786	-4.499	3.961	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.288	-5.929	4.013	1.00	0.00	C

ATOM	1318	OD1	ASP A	90139.463	-6.840	4.238	1.00	0.00	O
ATOM	1319	OD2	ASP A	90141.506	-6.138	3.828	1.00	0.00	O
ATOM	1320	H	ASP A	90138.378	-2.294	3.525	1.00	0.00	H
ATOM	1321	HA	ASP A	90138.167	-5.097	2.696	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.403	-3.947	3.268	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.881	-4.067	4.946	1.00	0.00	H
ATOM	1324	N	SER A	91136.640	-5.865	4.475	1.00	0.00	N
ATOM	1325	CA	SER A	91135.716	-6.338	5.498	1.00	0.00	C
ATOM	1326	C	SER A	91136.321	-7.495	6.286	1.00	0.00	C
ATOM	1327	O	SER A	91135.606	-8.375	6.764	1.00	0.00	O
ATOM	1328	CB	SER A	91134.396	-6.776	4.860	1.00	0.00	C
ATOM	1329	OG	SER A	91133.310	-6.584	5.749	1.00	0.00	O
ATOM	1330	H	SER A	91136.699	-6.348	3.624	1.00	0.00	H
ATOM	1331	HA	SER A	91135.523	-5.519	6.175	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.221	-6.196	3.966	1.00	0.00	H
ATOM	1333	2HB	SER A	91134.454	-7.824	4.603	1.00	0.00	H
ATOM	1334	HG	SER A	91133.107	-7.412	6.191	1.00	0.00	H
ATOM	1335	N	ARG A	92137.643	-7.487	6.418	1.00	0.00	N
ATOM	1336	CA	ARG A	92138.345	-8.536	7.149	1.00	0.00	C
ATOM	1337	C	ARG A	92137.999	-8.490	8.633	1.00	0.00	C
ATOM	1338	O	ARG A	92137.991	-9.519	9.310	1.00	0.00	O
ATOM	1339	CB	ARG A	92139.856	-8.395	6.960	1.00	0.00	C
ATOM	1340	CG	ARG A	92140.387	-9.117	5.733	1.00	0.00	C
ATOM	1341	CD	ARG A	92140.922	-10.495	6.085	1.00	0.00	C
ATOM	1342	NE	ARG A	92139.849	-11.470	6.267	1.00	0.00	N
ATOM	1343	CZ	ARG A	92140.030	-12.682	6.784	1.00	0.00	C
ATOM	1344	NH1	ARG A	92141.238	-13.075	7.169	1.00	0.00	N

ATOM	1345	NH2	ARG A	92138.999	-13.508	6.915	1.00	0.00	N
ATOM	1346	H	ARG A	92138.160	-6.758	6.014	1.00	0.00	H
ATOM	1347	HA	ARG A	92138.029	-9.488	6.747	1.00	0.00	H
ATOM	1348	1HB	ARG A	92140.099	-7.347	6.869	1.00	0.00	H
ATOM	1349	2HB	ARG A	92140.355	-8.796	7.831	1.00	0.00	H
ATOM	1350	1HG	ARG A	92139.586	-9.225	5.016	1.00	0.00	H
ATOM	1351	2HG	ARG A	92141.183	-8.530	5.299	1.00	0.00	H
ATOM	1352	1HD	ARG A	92141.568	-10.830	5.287	1.00	0.00	H
ATOM	1353	2HD	ARG A	92141.491	-10.423	7.001	1.00	0.00	H
ATOM	1354	HE	ARG A	92138.947	-11.206	5.990	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92142.019	-12.458	7.074	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92141.367	-13.988	7.557	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92138.087	-13.217	6.626	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92139.135	-14.418	7.303	1.00	0.00	H
ATOM	1359	N	PHE A	93137.713	-7.293	9.133	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.366	-7.114	10.538	1.00	0.00	C
ATOM	1361	C	PHE A	93136.006	-6.439	10.683	1.00	0.00	C
ATOM	1362	O	PHE A	93135.761	-5.713	11.646	1.00	0.00	O
ATOM	1363	CB	PHE A	93138.437	-6.284	11.248	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.732	-7.019	11.447	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.508	-7.389	10.360	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.173	-7.340	12.721	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.701	-8.064	10.540	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.365	-8.015	12.907	1.00	0.00	C
ATOM	1369	CZ	PHE A	93142.129	-8.378	11.815	1.00	0.00	C
ATOM	1370	H	PHE A	93137.736	-6.511	8.543	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.320	-8.091	10.995	1.00	0.00	H

ATOM	1372	1HB	PHE A	93138.644	-5.400	10.663	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.069	-5.989	12.219	1.00	0.00	H
ATOM	1374	HD1	PHE A	93140.174	-7.143	9.362	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.576	-7.057	13.575	1.00	0.00	H
ATOM	1376	HE1	PHE A	93142.296	-8.347	9.684	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.697	-8.260	13.905	1.00	0.00	H
ATOM	1378	HZ	PHE A	93143.060	-8.906	11.957	1.00	0.00	H
ATOM	1379	N	ALAA	94135.123	-6.684	9.719	1.00	0.00	N
ATOM	1380	CA	ALAA	94133.788	-6.099	9.741	1.00	0.00	C
ATOM	1381	C	ALAA	94132.772	-7.072	10.327	1.00	0.00	C
ATOM	1382	O	ALAA	94132.691	-8.228	9.909	1.00	0.00	O
ATOM	1383	CB	ALAA	94133.373	-5.682	8.337	1.00	0.00	C
ATOM	1384	H	ALAA	94135.376	-7.271	8.976	1.00	0.00	H
ATOM	1385	HA	ALAA	94133.822	-5.214	10.358	1.00	0.00	H
ATOM	1386	1HB	ALAA	94134.251	-5.568	7.721	1.00	0.00	H
ATOM	1387	2HB	ALAA	94132.841	-4.743	8.384	1.00	0.00	H
ATOM	1388	3HB	ALAA	94132.730	-6.439	7.913	1.00	0.00	H
ATOM	1389	N	SER A	95131.999	-6.600	11.299	1.00	0.00	N
ATOM	1390	CA	SER A	95130.987	-7.428	11.944	1.00	0.00	C
ATOM	1391	C	SER A	95129.662	-7.353	11.194	1.00	0.00	C
ATOM	1392	O	SER A	95129.017	-6.305	11.158	1.00	0.00	O
ATOM	1393	CB	SER A	95130.791	-6.992	13.397	1.00	0.00	C
ATOM	1394	OG	SER A	95130.890	-5.584	13.525	1.00	0.00	O
ATOM	1395	H	SER A	95132.110	-5.670	11.589	1.00	0.00	H
ATOM	1396	HA	SER A	95131.338	-8.450	11.928	1.00	0.00	H
ATOM	1397	1HB	SER A	95129.814	-7.304	13.735	1.00	0.00	H
ATOM	1398	2HB	SER A	95131.549	-7.453	14.013	1.00	0.00	H

ATOM	1399	HG	SER A	95130.226	-5.272	14.144	1.00	0.00	H
ATOM	1400	N	LEU A	96129.260	-8.471	10.598	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.010	-8.531	9.849	1.00	0.00	C
ATOM	1402	C	LEU A	96127.168	-9.724	10.295	1.00	0.00	C
ATOM	1403	O	LEU A	96126.898	-10.636	9.512	1.00	0.00	O
ATOM	1404	CB	LEU A	96128.294	-8.620	8.348	1.00	0.00	C
ATOM	1405	CG	LEU A	96128.449	-7.275	7.638	1.00	0.00	C
ATOM	1406	CD1	LEU A	96129.872	-6.756	7.782	1.00	0.00	C
ATOM	1407	CD2	LEU A	96128.074	-7.403	6.170	1.00	0.00	C
ATOM	1408	H	LEU A	96129.818	-9.273	10.663	1.00	0.00	H
ATOM	1409	HA	LEU A	96127.459	-7.624	10.049	1.00	0.00	H
ATOM	1410	1HB	LEU A	96129.204	-9.186	8.209	1.00	0.00	H
ATOM	1411	2HB	LEU A	96127.483	-9.158	7.881	1.00	0.00	H
ATOM	1412	HG	LEU A	96127.785	-6.556	8.093	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96130.148	-6.210	6.893	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96130.546	-7.589	7.917	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96129.932	-6.102	8.639	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96128.564	-6.626	5.603	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96127.003	-7.305	6.063	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96128.385	-8.368	5.800	1.00	0.00	H
ATOM	1419	N	GLN A	97126.757	-9.711	11.559	1.00	0.00	N
ATOM	1420	CA	GLN A	97125.947	-10.790	12.110	1.00	0.00	C
ATOM	1421	C	GLN A	97124.516	-10.728	11.576	1.00	0.00	C
ATOM	1422	O	GLN A	97124.045	-11.665	10.932	1.00	0.00	O
ATOM	1423	CB	GLN A	97125.941	-10.721	13.640	1.00	0.00	C
ATOM	1424	CG	GLN A	97126.526	-11.955	14.306	1.00	0.00	C
ATOM	1425	CD	GLN A	97127.328	-11.623	15.549	1.00	0.00	C

ATOM	1426	OE1	GLN A	97128.215	-10.768	15.519	1.00	0.00	O
ATOM	1427	NE2	GLN A	97127.020	-12.297	16.650	1.00	0.00	N
ATOM	1428	H	GLN A	97127.004	-8.958	12.134	1.00	0.00	H
ATOM	1429	HA	GLN A	97126.390	-11.726	11.804	1.00	0.00	H
ATOM	1430	1HB	GLN A	97126.519	-9.863	13.952	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.924	-10.602	13.982	1.00	0.00	H
ATOM	1432	1HG	GLN A	97125.719	-12.616	14.585	1.00	0.00	H
ATOM	1433	2HG	GLN A	97127.173	-12.457	13.601	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97126.303	-12.963	16.600	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97127.523	-12.101	17.468	1.00	0.00	H
ATOM	1436	N	PRO A	98123.805	-9.618	11.839	1.00	0.00	N
ATOM	1437	CA	PRO A	98122.423	-9.441	11.383	1.00	0.00	C
ATOM	1438	C	PRO A	98122.336	-9.185	9.882	1.00	0.00	C
ATOM	1439	O	PRO A	98121.504	-9.772	9.190	1.00	0.00	O
ATOM	1440	CB	PRO A	98121.948	-8.215	12.163	1.00	0.00	C
ATOM	1441	CG	PRO A	98123.189	-7.437	12.434	1.00	0.00	C
ATOM	1442	CD	PRO A	98124.289	-8.450	12.603	1.00	0.00	C
ATOM	1443	HA	PRO A	98121.811	-10.293	11.637	1.00	0.00	H
ATOM	1444	1HB	PRO A	98121.251	-7.650	11.562	1.00	0.00	H
ATOM	1445	2HB	PRO A	98121.472	-8.530	13.079	1.00	0.00	H
ATOM	1446	1HG	PRO A	98123.404	-6.786	11.600	1.00	0.00	H
ATOM	1447	2HG	PRO A	98123.070	-6.861	13.341	1.00	0.00	H
ATOM	1448	1HD	PRO A	98125.213	-8.076	12.188	1.00	0.00	H
ATOM	1449	2HD	PRO A	98124.416	-8.700	13.646	1.00	0.00	H
ATOM	1450	N	SER A	99123.200	-8.306	9.385	1.00	0.00	N
ATOM	1451	CA	SER A	99123.219	-7.974	7.965	1.00	0.00	C
ATOM	1452	C	SER A	99121.874	-7.407	7.521	1.00	0.00	C

ATOM	1453	O	SER A	99121.020	-7.091	8.348	1.00	0.00	O
ATOM	1454	CB	SER A	99123.566	-9.211	7.134	1.00	0.00	C
ATOM	1455	OG	SER A	99124.331	-8.862	5.994	1.00	0.00	O
ATOM	1456	H	SER A	99123.840	-7.871	9.986	1.00	0.00	H
ATOM	1457	HA	SER A	99123.981	-7.223	7.811	1.00	0.00	H
ATOM	1458	1HB	SER A	99124.136	-9.899	7.738	1.00	0.00	H
ATOM	1459	2HB	SER A	99122.654	-9.689	6.808	1.00	0.00	H
ATOM	1460	HG	SER A	99124.982	-9.547	5.823	1.00	0.00	H
ATOM	1461	N	GLY A	100121.693	-7.282	6.210	1.00	0.00	N
ATOM	1462	CA	GLY A	100120.450	-6.753	5.680	1.00	0.00	C
ATOM	1463	C	GLY A	100119.356	-7.803	5.611	1.00	0.00	C
ATOM	1464	O	GLY A	100119.639	-8.982	5.399	1.00	0.00	O
ATOM	1465	H	GLY A	100122.411	-7.550	5.597	1.00	0.00	H
ATOM	1466	1HA	GLY A	100120.118	-5.944	6.312	1.00	0.00	H
ATOM	1467	2HA	GLY A	100120.628	-6.370	4.686	1.00	0.00	H
ATOM	1468	N	PRO A	101118.085	-7.404	5.789	1.00	0.00	N
ATOM	1469	CA	PRO A	101116.952	-8.333	5.743	1.00	0.00	C
ATOM	1470	C	PRO A	101116.660	-8.821	4.328	1.00	0.00	C
ATOM	1471	O	PRO A	101116.427	-8.023	3.421	1.00	0.00	O
ATOM	1472	CB	PRO A	101115.786	-7.494	6.269	1.00	0.00	C
ATOM	1473	CG	PRO A	101116.154	-6.088	5.942	1.00	0.00	C
ATOM	1474	CD	PRO A	101117.653	-6.016	6.049	1.00	0.00	C
ATOM	1475	HA	PRO A	101117.110	-9.182	6.391	1.00	0.00	H
ATOM	1476	1HB	PRO A	101114.873	-7.791	5.773	1.00	0.00	H
ATOM	1477	2HB	PRO A	101115.686	-7.638	7.335	1.00	0.00	H
ATOM	1478	1HG	PRO A	101115.838	-5.850	4.937	1.00	0.00	H
ATOM	1479	2HG	PRO A	101115.696	-5.414	6.650	1.00	0.00	H

ATOM	1480	1HD	PRO A 1011	18.052	-5.343	5.304	1.00	0.00	H
ATOM	1481	2HD	PRO A 1011	17.947	-5.701	7.039	1.00	0.00	H
ATOM	1482	N	SER A 1021	16.674	-10.138	4.148	1.00	0.00	N
ATOM	1483	CA	SER A 1021	16.412	-10.733	2.842	1.00	0.00	C
ATOM	1484	C	SER A 1021	16.109	-12.222	2.974	1.00	0.00	C
ATOM	1485	O	SER A 1021	14.991	-12.664	2.712	1.00	0.00	O
ATOM	1486	CB	SER A 1021	17.608	-10.524	1.913	1.00	0.00	C
ATOM	1487	OG	SER A 1021	18.116	-9.206	2.023	1.00	0.00	O
ATOM	1488	H	SER A 1021	16.867	-10.723	4.910	1.00	0.00	H
ATOM	1489	HA	SER A 1021	15.549	-10.239	2.421	1.00	0.00	H
ATOM	1490	1HB	SER A 1021	18.391	-11.220	2.174	1.00	0.00	H
ATOM	1491	2HB	SER A 1021	17.301	-10.695	0.891	1.00	0.00	H
ATOM	1492	HG	SER A 1021	17.394	-8.577	1.950	1.00	0.00	H
ATOM	1493	N	SER A 1031	17.113	-12.991	3.383	1.00	0.00	N
ATOM	1494	CA	SER A 1031	16.954	-14.431	3.549	1.00	0.00	C
ATOM	1495	C	SER A 1031	16.257	-14.753	4.867	1.00	0.00	C
ATOM	1496	O	SER A 1031	15.461	-15.689	4.948	1.00	0.00	O
ATOM	1497	CB	SER A 1031	18.316	-15.125	3.496	1.00	0.00	C
ATOM	1498	OG	SER A 1031	19.347	-14.261	3.943	1.00	0.00	O
ATOM	1499	H	SER A 1031	17.982	-12.580	3.576	1.00	0.00	H
ATOM	1500	HA	SER A 1031	16.344	-14.793	2.735	1.00	0.00	H
ATOM	1501	1HB	SER A 1031	18.297	-15.999	4.129	1.00	0.00	H
ATOM	1502	2HB	SER A 1031	18.528	-15.422	2.480	1.00	0.00	H
ATOM	1503	HG	SER A 1031	19.084	-13.850	4.770	1.00	0.00	H
ATOM	1504	N	GLY A 1041	16.563	-13.971	5.898	1.00	0.00	N
ATOM	1505	CA	GLY A 1041	15.957	-14.190	7.198	1.00	0.00	C
ATOM	1506	C	GLY A 1041	16.797	-13.632	8.330	1.00	0.00	C

ATOM	1507	O	GLY A 104	116.544 -12.483	8.749	1.00	0.00	O
ATOM	1508	OXT	GLY A 104	117.710 -14.346	8.800	1.00	0.00	O
ATOM	1509	H	GLY A 104	117.204 -13.241	5.775	1.00	0.00	H
ATOM	1510	1HA	GLY A 104	114.988 -13.713	7.216	1.00	0.00	H
ATOM	1511	2HA	GLY A 104	115.828 -15.251	7.349	1.00	0.00	H
TER	1512	GLY A 104						
ENDMDL								

Three-Dimensional Structure Coordinate Table 4

ATOM 1	N	GLY A	1121.720	20.634 -14.920	1.00	0.00	N
ATOM 2	CA	GLY A	1122.817	20.620 -15.926	1.00	0.00	C
ATOM 3	C	GLY A	1124.008	19.798 -15.473	1.00	0.00	C
ATOM 4	O	GLY A	1124.328	18.773 -16.074	1.00	0.00	O
ATOM 5	1H	GLY A	1121.802	19.811 -14.289	1.00	0.00	H
ATOM 6	2H	GLY A	1120.797	20.600 -15.398	1.00	0.00	H
ATOM 7	3H	GLY A	1121.770	21.502 -14.350	1.00	0.00	H
ATOM 8	1HA	GLY A	1122.439	20.205 -16.849	1.00	0.00	H
ATOM 9	2HA	GLY A	1123.140	21.634 -16.106	1.00	0.00	H
ATOM10	N	SER A	2124.667	20.251 -14.411	1.00	0.00	N
ATOM11	CA	SER A	2125.830	19.552 -13.878	1.00	0.00	C
ATOM12	C	SER A	2125.464	18.765 -12.623	1.00	0.00	C
ATOM13	O	SER A	2126.259	18.661 -11.690	1.00	0.00	O
ATOM14	CB	SER A	2126.948	20.547 -13.561	1.00	0.00	C
ATOM15	OG	SER A	2126.520	21.513 -12.617	1.00	0.00	O
ATOM16	H	SER A	2124.363	21.075 -13.976	1.00	0.00	H
ATOM17	HA	SER A	2126.177	18.862 -14.633	1.00	0.00	H
ATOM18	1HB	SER A	2127.796	20.015 -13.156	1.00	0.00	H

ATOM19	2HB	SER A	2127.243	21.054	-14.469	1.00	0.00	H
ATOM20	HG	SER A	2126.598	22.391	-12.998	1.00	0.00	H
ATOM21	N	SER A	3124.255	18.213	-12.610	1.00	0.00	N
ATOM22	CA	SER A	3123.782	17.436	-11.469	1.00	0.00	C
ATOM23	C	SER A	3123.253	16.078	-11.920	1.00	0.00	C
ATOM24	O	SER A	3123.214	15.780	-13.113	1.00	0.00	O
ATOM25	CB	SER A	3122.690	18.201	-10.721	1.00	0.00	C
ATOM26	OG	SER A	3122.954	19.592	-10.713	1.00	0.00	O
ATOM27	H	SER A	3123.666	18.332	-13.384	1.00	0.00	H
ATOM28	HA	SER A	3124.619	17.280	-10.805	1.00	0.00	H
ATOM29	1HB	SER A	3121.739	18.031	-11.206	1.00	0.00	H
ATOM30	2HB	SER A	3122.641	17.848	-9.701	1.00	0.00	H
ATOM31	HG	SER A	3123.781	19.758	-10.252	1.00	0.00	H
ATOM32	N	GLY A	4122.847	15.258	-10.956	1.00	0.00	N
ATOM33	CA	GLY A	4122.325	13.942	-11.272	1.00	0.00	C
ATOM34	C	GLY A	4121.131	13.570	-10.416	1.00	0.00	C
ATOM35	O	GLY A	4120.014	13.442	-10.917	1.00	0.00	O
ATOM36	H	GLY A	4122.901	15.549	-10.021	1.00	0.00	H
ATOM37	1HA	GLY A	4122.029	13.925	-12.310	1.00	0.00	H
ATOM38	2HA	GLY A	4123.105	13.211	-11.120	1.00	0.00	H
ATOM39	N	SER A	5121.366	13.394	-9.120	1.00	0.00	N
ATOM40	CA	SER A	5120.300	13.034	-8.191	1.00	0.00	C
ATOM41	C	SER A	5120.725	13.292	-6.750	1.00	0.00	C
ATOM42	O	SER A	5121.804	13.829	-6.496	1.00	0.00	O
ATOM43	CB	SER A	5119.918	11.564	-8.367	1.00	0.00	C
ATOM44	OG	SER A	5118.602	11.319	-7.902	1.00	0.00	O
ATOM45	H	SER A	5122.278	13.510	-8.780	1.00	0.00	H

ATOM46	HA	SER A	5119.443	13.650	-8.417	1.00	0.00	H
ATOM47	1HB	SER A	5119.969	11.303	-9.414	1.00	0.00	H
ATOM48	2HB	SER A	5120.605	10.946	-7.809	1.00	0.00	H
ATOM49	HG	SER A	5117.985	11.880	-8.377	1.00	0.00	H
ATOM50	N	SER A	6119.871	12.904	-5.808	1.00	0.00	N
ATOM51	CA	SER A	6120.158	13.094	-4.391	1.00	0.00	C
ATOM52	C	SER A	6120.904	11.891	-3.822	1.00	0.00	C
ATOM53	O	SER A	6120.766	10.772	-4.314	1.00	0.00	O
ATOM54	CB	SER A	6118.860	13.318	-3.612	1.00	0.00	C
ATOM55	OG	SER A	6118.541	14.697	-3.538	1.00	0.00	O
ATOM56	H	SER A	6119.027	12.481	-6.073	1.00	0.00	H
ATOM57	HA	SER A	6120.782	13.969	-4.293	1.00	0.00	H
ATOM58	1HB	SER A	6118.052	12.801	-4.106	1.00	0.00	H
ATOM59	2HB	SER A	6118.975	12.933	-2.609	1.00	0.00	H
ATOM60	HG	SER A	6118.107	14.880	-2.702	1.00	0.00	H
ATOM61	N	GLY A	7121.697	12.132	-2.782	1.00	0.00	N
ATOM62	CA	GLY A	7122.455	11.059	-2.163	1.00	0.00	C
ATOM63	C	GLY A	7123.939	11.360	-2.100	1.00	0.00	C
ATOM64	O	GLY A	7124.349	12.392	-1.568	1.00	0.00	O
ATOM65	H	GLY A	7121.768	13.044	-2.433	1.00	0.00	H
ATOM66	1HA	GLY A	7122.086	10.908	-1.159	1.00	0.00	H
ATOM67	2HA	GLY A	7122.306	10.153	-2.730	1.00	0.00	H
ATOM68	N	LEU A	8124.747	10.455	-2.645	1.00	0.00	N
ATOM69	CA	LEU A	8126.195	10.628	-2.648	1.00	0.00	C
ATOM70	C	LEU A	8126.735	10.727	-1.225	1.00	0.00	C
ATOM71	O	LEU A	8126.956	11.822	-0.708	1.00	0.00	O
ATOM72	CB	LEU A	8126.578	11.881	-3.439	1.00	0.00	C

ATOM73	CG	LEU A	8126.391	11.771	-4.954	1.00	0.00	C
ATOM74	CD1	LEU A	8125.132	12.503	-5.392	1.00	0.00	C
ATOM75	CD2	LEU A	8127.609	12.320	-5.684	1.00	0.00	C
ATOM76	H	LEU A	8124.360	9.653	-3.053	1.00	0.00	H
ATOM77	HA	LEU A	8126.631	9.764	-3.127	1.00	0.00	H
ATOM78	1HB	LEU A	8125.979	12.704	-3.080	1.00	0.00	H
ATOM79	2HB	LEU A	8127.617	12.101	-3.241	1.00	0.00	H
ATOM80	HG	LEU A	8126.281	10.731	-5.222	1.00	0.00	H
ATOM81	1HD1	LEU A	8125.389	13.502	-5.716	1.00	0.00	H
ATOM82	2HD1	LEU A	8124.442	12.560	-4.564	1.00	0.00	H
ATOM83	3HD1	LEU A	8124.669	11.968	-6.208	1.00	0.00	H
ATOM84	1HD2	LEU A	8127.471	12.206	-6.749	1.00	0.00	H
ATOM85	2HD2	LEU A	8128.489	11.776	-5.375	1.00	0.00	H
ATOM86	3HD2	LEU A	8127.731	13.366	-5.447	1.00	0.00	H
ATOM87	N	ALA A	9126.946	9.575	-0.597	1.00	0.00	N
ATOM88	CA	ALA A	9127.461	9.530	0.766	1.00	0.00	C
ATOM89	C	ALA A	9128.987	9.538	0.777	1.00	0.00	C
ATOM90	O	ALA A	9129.620	8.618	1.295	1.00	0.00	O
ATOM91	CB	ALA A	9126.930	8.302	1.490	1.00	0.00	C
ATOM92	H	ALA A	9126.752	8.734	-1.062	1.00	0.00	H
ATOM93	HA	ALA A	9127.103	10.408	1.285	1.00	0.00	H
ATOM94	1HB	ALA A	9126.984	7.446	0.834	1.00	0.00	H
ATOM95	2HB	ALA A	9125.902	8.470	1.778	1.00	0.00	H
ATOM96	3HB	ALA A	9127.525	8.119	2.372	1.00	0.00	H
ATOM97	N	MET A	10129.571	10.584	0.201	1.00	0.00	N
ATOM98	CA	MET A	10131.023	10.712	0.145	1.00	0.00	C
ATOM99	C	MET A	10131.429	12.104	-0.337	1.00	0.00	C

ATOM	100	O	MET A	10132.025	12.252	-1.405	1.00	0.00 O
ATOM	101	CB	MET A	10131.614	9.645	-0.779	1.00	0.00 C
ATOM	102	CG	MET A	10130.848	9.478	-2.083	1.00	0.00 C
ATOM	103	SD	MET A	10131.914	9.566	-3.535	1.00	0.00 S
ATOM	104	CE	MET A	10131.189	10.954	-4.404	1.00	0.00 C
ATOM	105	H	MET A	10129.013	11.286	-0.194	1.00	0.00 H
ATOM	106	HA	MET A	10131.407	10.564	1.143	1.00	0.00 H
ATOM	107	1HB	MET A	10132.633	9.913	-1.014	1.00	0.00 H
ATOM	108	2HB	MET A	10131.611	8.697	-0.261	1.00	0.00 H
ATOM	109	1HG	MET A	10130.356	8.517	-2.075	1.00	0.00 H
ATOM	110	2HG	MET A	10130.106	10.259	-2.151	1.00	0.00 H
ATOM	111	1HE	MET A	10130.247	10.653	-4.838	1.00	0.00 H
ATOM	112	2HE	MET A	10131.859	11.279	-5.186	1.00	0.00 H
ATOM	113	3HE	MET A	10131.023	11.765	-3.711	1.00	0.00 H
ATOM	114	N	PRO A	11131.111	13.149	0.447	1.00	0.00 N
ATOM	115	CA	PRO A	11131.448	14.531	0.093	1.00	0.00 C
ATOM	116	C	PRO A	11132.950	14.732	-0.102	1.00	0.00 C
ATOM	117	O	PRO A	11133.376	15.329	-1.090	1.00	0.00 O
ATOM	118	CB	PRO A	11130.946	15.355	1.283	1.00	0.00 C
ATOM	119	CG	PRO A	11129.966	14.479	1.987	1.00	0.00 C
ATOM	120	CD	PRO A	11130.402	13.063	1.735	1.00	0.00 C
ATOM	121	HA	PRO A	11130.931	14.840	-0.803	1.00	0.00 H
ATOM	122	1HB	PRO A	11131.778	15.610	1.923	1.00	0.00 H
ATOM	123	2HB	PRO A	11130.476	16.258	0.923	1.00	0.00 H
ATOM	124	1HG	PRO A	11129.982	14.690	3.045	1.00	0.00 H
ATOM	125	2HG	PRO A	11128.975	14.641	1.587	1.00	0.00 H
ATOM	126	1HD	PRO A	11131.065	12.727	2.519	1.00	0.00 H

ATOM	127	2HD	PRO A	11129.544	12.412	1.659	1.00	0.00	H
ATOM	128	N	PRO A	12133.779	14.235	0.835	1.00	0.00	N
ATOM	129	CA	PRO A	12135.238	14.369	0.742	1.00	0.00	C
ATOM	130	C	PRO A	12135.783	13.801	-0.562	1.00	0.00	C
ATOM	131	O	PRO A	12136.871	14.169	-1.006	1.00	0.00	O
ATOM	132	CB	PRO A	12135.755	13.558	1.934	1.00	0.00	C
ATOM	133	CG	PRO A	12134.615	13.509	2.890	1.00	0.00	C
ATOM	134	CD	PRO A	12133.371	13.501	2.049	1.00	0.00	C
ATOM	135	HA	PRO A	12135.546	15.399	0.841	1.00	0.00	H
ATOM	136	1HB	PRO A	12136.037	12.568	1.604	1.00	0.00	H
ATOM	137	2HB	PRO A	12136.611	14.055	2.366	1.00	0.00	H
ATOM	138	1HG	PRO A	12134.672	12.609	3.484	1.00	0.00	H
ATOM	139	2HG	PRO A	12134.632	14.382	3.526	1.00	0.00	H
ATOM	140	1HD	PRO A	12133.084	12.488	1.809	1.00	0.00	H
ATOM	141	2HD	PRO A	12132.570	14.012	2.558	1.00	0.00	H
ATOM	142	N	GLY A	13135.020	12.900	-1.175	1.00	0.00	N
ATOM	143	CA	GLY A	13135.443	12.293	-2.423	1.00	0.00	C
ATOM	144	C	GLY A	13135.739	10.814	-2.278	1.00	0.00	C
ATOM	145	O	GLY A	13135.196	10.149	-1.395	1.00	0.00	O
ATOM	146	H	GLY A	13134.162	12.644	-0.774	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.662	12.423	-3.156	1.00	0.00	H
ATOM	148	2HA	GLY A	13136.335	12.795	-2.771	1.00	0.00	H
ATOM	149	N	ASN A	14136.601	10.296	-3.147	1.00	0.00	N
ATOM	150	CA	ASN A	14136.968	8.885	-3.112	1.00	0.00	C
ATOM	151	C	ASN A	14135.742	7.999	-3.313	1.00	0.00	C
ATOM	152	O	ASN A	14134.635	8.494	-3.530	1.00	0.00	O
ATOM	153	CB	ASN A	14137.644	8.545	-1.783	1.00	0.00	C

ATOM	154	CG	ASN A	14138.954	9.284	-1.595	1.00	0.00	C
ATOM	155	OD1	ASN A	14139.305	10.161	-2.385	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.687	8.933	-0.545	1.00	0.00	N
ATOM	157	H	ASN A	14137.000	10.876	-3.828	1.00	0.00	H
ATOM	158	HA	ASN A	14137.664	8.704	-3.917	1.00	0.00	H
ATOM	159	1HB	ASN A	14136.983	8.810	-0.971	1.00	0.00	H
ATOM	160	2HB	ASN A	14137.842	7.484	-1.747	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.345	8.227	0.043	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.538	9.395	-0.399	1.00	0.00	H
ATOM	163	N	SER A	15135.948	6.689	-3.242	1.00	0.00	N
ATOM	164	CA	SER A	15134.858	5.734	-3.416	1.00	0.00	C
ATOM	165	C	SER A	15133.890	5.791	-2.239	1.00	0.00	C
ATOM	166	O	SER A	15132.711	6.101	-2.407	1.00	0.00	O
ATOM	167	CB	SER A	15135.414	4.317	-3.566	1.00	0.00	C
ATOM	168	OG	SER A	15136.208	3.959	-2.448	1.00	0.00	O
ATOM	169	H	SER A	15136.852	6.355	-3.068	1.00	0.00	H
ATOM	170	HA	SER A	15134.326	5.999	-4.317	1.00	0.00	H
ATOM	171	1HB	SER A	15134.595	3.618	-3.647	1.00	0.00	H
ATOM	172	2HB	SER A	15136.023	4.263	-4.456	1.00	0.00	H
ATOM	173	HG	SER A	15137.082	3.698	-2.747	1.00	0.00	H
ATOM	174	N	HIS A	16134.398	5.491	-1.048	1.00	0.00	N
ATOM	175	CA	HIS A	16133.578	5.509	0.159	1.00	0.00	C
ATOM	176	C	HIS A	16134.260	6.307	1.267	1.00	0.00	C
ATOM	177	O	HIS A	16133.836	7.413	1.599	1.00	0.00	O
ATOM	178	CB	HIS A	16133.304	4.080	0.634	1.00	0.00	C
ATOM	179	CG	HIS A	16131.900	3.624	0.378	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.007	3.335	1.388	1.00	0.00	N

ATOM	181	CD2 HIS A	16131.237	3.409	-0.782	1.00	0.00	C
ATOM	182	CE1 HIS A	16129.855	2.961	0.860	1.00	0.00	C
ATOM	183	NE2 HIS A	16129.968	2.997	-0.455	1.00	0.00	N
ATOM	184	H HIS A	16135.345	5.253	-0.978	1.00	0.00	H
ATOM	185	HA HIS A	16132.640	5.984	-0.086	1.00	0.00	H
ATOM	186	1HB HIS A	16133.970	3.403	0.122	1.00	0.00	H
ATOM	187	2HB HIS A	16133.485	4.019	1.698	1.00	0.00	H
ATOM	188	HD1 HIS A	16131.190	3.395	2.350	1.00	0.00	H
ATOM	189	HD2 HIS A	16131.632	3.536	-1.780	1.00	0.00	H
ATOM	190	HE1 HIS A	16128.971	2.675	1.411	1.00	0.00	H
ATOM	191	HE2 HIS A	16129.289	2.685	-1.088	1.00	0.00	H
ATOM	192	N GLY A	17135.318	5.736	1.834	1.00	0.00	N
ATOM	193	CA GLY A	17136.041	6.408	2.898	1.00	0.00	C
ATOM	194	C GLY A	17137.368	5.742	3.205	1.00	0.00	C
ATOM	195	O GLY A	17137.614	5.325	4.336	1.00	0.00	O
ATOM	196	H GLY A	17135.609	4.853	1.527	1.00	0.00	H
ATOM	197	1HA GLY A	17136.223	7.431	2.604	1.00	0.00	H
ATOM	198	2HA GLY A	17135.433	6.403	3.791	1.00	0.00	H
ATOM	199	N LEU A	18138.224	5.641	2.194	1.00	0.00	N
ATOM	200	CA LEU A	18139.533	5.020	2.360	1.00	0.00	C
ATOM	201	C LEU A	18140.585	6.058	2.735	1.00	0.00	C
ATOM	202	O LEU A	18140.997	6.868	1.904	1.00	0.00	O
ATOM	203	CB LEU A	18139.946	4.299	1.074	1.00	0.00	C
ATOM	204	CG LEU A	18138.884	3.370	0.484	1.00	0.00	C
ATOM	205	CD1 LEU A	18139.224	3.020	-0.957	1.00	0.00	C
ATOM	206	CD2 LEU A	18138.754	2.110	1.325	1.00	0.00	C
ATOM	207	H LEU A	18137.969	5.991	1.314	1.00	0.00	H

ATOM	208	HA	LEU A	18139.458	4.296	3.158	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.195	5.046	0.333	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.828	3.714	1.282	1.00	0.00	H
ATOM	211	HG	LEU A	18137.929	3.877	0.487	1.00	0.00	H
ATOM	212	1HD1	LEU A	18140.293	3.082	-1.099	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.731	3.712	-1.622	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.890	2.015	-1.171	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.718	1.634	1.411	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.058	1.432	0.852	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.390	2.369	2.308	1.00	0.00	H
ATOM	218	N	GLU A	19141.017	6.028	3.992	1.00	0.00	N
ATOM	219	CA	GLU A	19142.022	6.965	4.478	1.00	0.00	C
ATOM	220	C	GLU A	19143.071	6.248	5.321	1.00	0.00	C
ATOM	221	O	GLU A	19143.018	5.031	5.491	1.00	0.00	O
ATOM	222	CB	GLU A	19141.360	8.074	5.299	1.00	0.00	C
ATOM	223	CG	GLU A	19140.503	7.556	6.441	1.00	0.00	C
ATOM	224	CD	GLU A	19139.214	8.339	6.604	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.659	8.787	5.579	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.761	8.502	7.756	1.00	0.00	O
ATOM	227	H	GLU A	19140.651	5.358	4.607	1.00	0.00	H
ATOM	228	HA	GLU A	19142.506	7.405	3.619	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.132	8.706	5.714	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.735	8.664	4.646	1.00	0.00	H
ATOM	231	1HG	GLU A	19140.256	6.523	6.249	1.00	0.00	H
ATOM	232	2HG	GLU A	19141.068	7.626	7.359	1.00	0.00	H
ATOM	233	N	VAL A	20144.023	7.011	5.846	1.00	0.00	N
ATOM	234	CA	VAL A	20145.085	6.447	6.672	1.00	0.00	C

ATOM	235	C	VAL A	20144.518	5.816	7.939	1.00	0.00 C
ATOM	236	O	VAL A	20143.685	6.411	8.621	1.00	0.00 O
ATOM	237	CB	VAL A	20146.122	7.518	7.065	1.00	0.00 C
ATOM	238	CG1	VAL A	20147.296	6.884	7.795	1.00	0.00 C
ATOM	239	CG2	VAL A	20146.598	8.279	5.835	1.00	0.00 C
ATOM	240	H	VAL A	20144.013	7.976	5.675	1.00	0.00 H
ATOM	241	HA	VAL A	20145.587	5.685	6.095	1.00	0.00 H
ATOM	242	HB	VAL A	20145.648	8.220	7.734	1.00	0.00 H
ATOM	243	1HG1	VAL A	20148.120	7.582	7.825	1.00	0.00 H
ATOM	244	2HG1	VAL A	20147.602	5.988	7.276	1.00	0.00 H
ATOM	245	3HG1	VAL A	20147.000	6.632	8.802	1.00	0.00 H
ATOM	246	1HG2	VAL A	20146.673	9.330	6.069	1.00	0.00 H
ATOM	247	2HG2	VAL A	20145.893	8.139	5.029	1.00	0.00 H
ATOM	248	3HG2	VAL A	20147.567	7.907	5.535	1.00	0.00 H
ATOM	249	N	GLY A	21144.974	4.607	8.247	1.00	0.00 N
ATOM	250	CA	GLY A	21144.501	3.914	9.431	1.00	0.00 C
ATOM	251	C	GLY A	21143.495	2.828	9.106	1.00	0.00 C
ATOM	252	O	GLY A	21143.520	1.751	9.699	1.00	0.00 O
ATOM	253	H	GLY A	21145.639	4.181	7.665	1.00	0.00 H
ATOM	254	1HA	GLY A	21145.347	3.468	9.935	1.00	0.00 H
ATOM	255	2HA	GLY A	21144.040	4.631	10.093	1.00	0.00 H
ATOM	256	N	SER A	22142.605	3.114	8.159	1.00	0.00 N
ATOM	257	CA	SER A	22141.584	2.153	7.757	1.00	0.00 C
ATOM	258	C	SER A	22142.168	1.099	6.821	1.00	0.00 C
ATOM	259	O	SER A	22143.084	1.379	6.049	1.00	0.00 O
ATOM	260	CB	SER A	22140.421	2.872	7.070	1.00	0.00 C
ATOM	261	OG	SER A	22139.627	3.571	8.012	1.00	0.00 O

ATOM	262	H	SER A	22142.636	3.990	7.723	1.00	0.00	H
ATOM	263	HA	SER A	22141.218	1.664	8.647	1.00	0.00	H
ATOM	264	1HB	SER A	22140.810	3.578	6.352	1.00	0.00	H
ATOM	265	2HB	SER A	22139.803	2.146	6.563	1.00	0.00	H
ATOM	266	HG	SER A	22139.120	4.251	7.562	1.00	0.00	H
ATOM	267	N	LEU A	23141.632	-0.115	6.897	1.00	0.00	N
ATOM	268	CA	LEU A	23142.098	-1.212	6.057	1.00	0.00	C
ATOM	269	C	LEU A	23141.431	-1.171	4.687	1.00	0.00	C
ATOM	270	O	LEU A	23140.263	-0.802	4.564	1.00	0.00	O
ATOM	271	CB	LEU A	23141.820	-2.555	6.734	1.00	0.00	C
ATOM	272	CG	LEU A	23142.685	-2.855	7.958	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.930	-3.730	8.945	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.986	-3.523	7.539	1.00	0.00	C
ATOM	275	H	LEU A	23140.904	-0.277	7.533	1.00	0.00	H
ATOM	276	HA	LEU A	23143.165	-1.098	5.928	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.783	-2.572	7.039	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.978	-3.339	6.009	1.00	0.00	H
ATOM	279	HG	LEU A	23142.929	-1.927	8.454	1.00	0.00	H
ATOM	280	1HD1	LEU A	23142.506	-3.832	9.853	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.767	-4.705	8.511	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.977	-3.276	9.173	1.00	0.00	H
ATOM	283	1HD2	LEU A	23144.455	-2.941	6.758	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.779	-4.517	7.171	1.00	0.00	H
ATOM	285	3HD2	LEU A	23144.650	-3.584	8.389	1.00	0.00	H
ATOM	286	N	ALA A	24142.180	-1.554	3.658	1.00	0.00	N
ATOM	287	CA	ALA A	24141.661	-1.562	2.296	1.00	0.00	C
ATOM	288	C	ALA A	24142.228	-2.732	1.500	1.00	0.00	C

ATOM	289	O	ALA A	24143.420	-3.033	1.583	1.00	0.00	O
ATOM	290	CB	ALA A	24141.979	-0.245	1.603	1.00	0.00	C
ATOM	291	H	ALA A	24143.104	-1.837	3.819	1.00	0.00	H
ATOM	292	HA	ALA A	24140.587	-1.663	2.349	1.00	0.00	H
ATOM	293	1HB	ALA A	24142.874	-0.358	1.009	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.134	0.524	2.345	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.155	0.033	0.962	1.00	0.00	H
ATOM	296	N	GLU A	25141.369	-3.388	0.727	1.00	0.00	N
ATOM	297	CA	GLU A	25141.786	-4.526	-0.084	1.00	0.00	C
ATOM	298	C	GLU A	25141.885	-4.138	-1.555	1.00	0.00	C
ATOM	299	O	GLU A	25140.962	-3.548	-2.117	1.00	0.00	O
ATOM	300	CB	GLU A	25140.802	-5.686	0.084	1.00	0.00	C
ATOM	301	CG	GLU A	25141.261	-6.974	-0.579	1.00	0.00	C
ATOM	302	CD	GLU A	25140.550	-7.240	-1.891	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.211	-8.414	-2.155	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.330	-6.277	-2.654	1.00	0.00	O
ATOM	305	H	GLU A	25140.432	-3.101	0.703	1.00	0.00	H
ATOM	306	HA	GLU A	25142.759	-4.839	0.261	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.665	-5.878	1.138	1.00	0.00	H
ATOM	308	2HB	GLU A	25139.853	-5.403	-0.348	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.322	-6.906	-0.771	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.069	-7.798	0.092	1.00	0.00	H
ATOM	311	N	VAL A	26143.013	-4.472	-2.175	1.00	0.00	N
ATOM	312	CA	VAL A	26143.234	-4.159	-3.582	1.00	0.00	C
ATOM	313	C	VAL A	26142.875	-5.344	-4.470	1.00	0.00	C
ATOM	314	O	VAL A	26143.102	-6.498	-4.106	1.00	0.00	O
ATOM	315	CB	VAL A	26144.698	-3.759	-3.844	1.00	0.00	C

ATOM	316	CG1	VAL A	26144.864	-3.239	-5.263	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.159	-2.722	-2.830	1.00	0.00	C
ATOM	318	H	VAL A	26143.712	-4.941	-1.674	1.00	0.00	H
ATOM	319	HA	VAL A	26142.602	-3.322	-3.840	1.00	0.00	H
ATOM	320	HB	VAL A	26145.315	-4.638	-3.733	1.00	0.00	H
ATOM	321	1HG1	VAL A	26143.919	-2.852	-5.618	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.187	-4.044	-5.907	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.602	-2.450	-5.274	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.819	-2.017	-3.312	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.683	-3.214	-2.026	1.00	0.00	H
ATOM	326	3HG2	VAL A	26144.300	-2.200	-2.434	1.00	0.00	H
ATOM	327	N	LYS A	27142.313	-5.052	-5.639	1.00	0.00	N
ATOM	328	CA	LYS A	27141.922	-6.094	-6.581	1.00	0.00	C
ATOM	329	C	LYS A	27143.099	-6.503	-7.462	1.00	0.00	C
ATOM	330	O	LYS A	27143.028	-6.423	-8.689	1.00	0.00	O
ATOM	331	CB	LYS A	27140.758	-5.616	-7.450	1.00	0.00	C
ATOM	332	CG	LYS A	27139.941	-6.748	-8.051	1.00	0.00	C
ATOM	333	CD	LYS A	27138.455	-6.426	-8.056	1.00	0.00	C
ATOM	334	CE	LYS A	27138.093	-5.490	-9.199	1.00	0.00	C
ATOM	335	NZ	LYS A	27136.757	-5.806	-9.773	1.00	0.00	N
ATOM	336	H	LYS A	27142.157	-4.114	-5.874	1.00	0.00	H
ATOM	337	HA	LYS A	27141.603	-6.954	-6.009	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.100	-5.008	-6.846	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.148	-5.014	-8.257	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.267	-6.913	-9.068	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.104	-7.644	-7.470	1.00	0.00	H
ATOM	342	1HD	LYS A	27137.898	-7.344	-8.166	1.00	0.00	H

ATOM	343	2HD	LYS A	27138.196	-5.954	-7.120	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.083	-4.476	-8.826	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.840	-5.581	-9.973	1.00	0.00	H
ATOM	346	1HZ	LYS A	27136.863	-6.410	-10.613	1.00	0.00	H
ATOM	347	2HZ	LYS A	27136.269	-4.931	-10.049	1.00	0.00	H
ATOM	348	3HZ	LYS A	27136.175	-6.307	-9.072	1.00	0.00	H
ATOM	349	N	GLU A	28144.182	-6.941	-6.829	1.00	0.00	N
ATOM	350	CA	GLU A	28145.374	-7.363	-7.554	1.00	0.00	C
ATOM	351	C	GLU A	28145.422	-8.882	-7.682	1.00	0.00	C
ATOM	352	O	GLU A	28144.507	-9.581	-7.248	1.00	0.00	O
ATOM	353	CB	GLU A	28146.634	-6.857	-6.845	1.00	0.00	C
ATOM	354	CG	GLU A	28147.639	-6.209	-7.782	1.00	0.00	C
ATOM	355	CD	GLU A	28148.605	-5.292	-7.057	1.00	0.00	C
ATOM	356	OE1	GLU A	28148.525	-4.063	-7.264	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.440	-5.803	-6.282	1.00	0.00	O
ATOM	358	H	GLU A	28144.179	-6.982	-5.849	1.00	0.00	H
ATOM	359	HA	GLU A	28145.331	-6.931	-8.542	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.346	-6.129	-6.102	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.116	-7.689	-6.354	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.206	-6.984	-8.275	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.103	-5.631	-8.521	1.00	0.00	H
ATOM	364	N	ASN A	29146.495	-9.387	-8.282	1.00	0.00	N
ATOM	365	CA	ASN A	29146.661	-10.823	-8.467	1.00	0.00	C
ATOM	366	C	ASN A	29146.743	-11.539	-7.120	1.00	0.00	C
ATOM	367	O	ASN A	29145.928	-12.410	-6.820	1.00	0.00	O
ATOM	368	CB	ASN A	29147.918	-11.112	-9.291	1.00	0.00	C
ATOM	369	CG	ASN A	29147.608	-11.324	-10.760	1.00	0.00	C

ATOM	370	OD1	ASN A	29147.598	-12.454	-11.248	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.356	-10.233	-11.475	1.00	0.00	N
ATOM	372	H	ASN A	29147.192	-8.780	-8.608	1.00	0.00	H
ATOM	373	HA	ASN A	29145.798	-11.190	-9.003	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.598	-10.277	-9.203	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.395	-12.002	-8.910	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.382	-9.365	-11.020	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.152	-10.341	-12.427	1.00	0.00	H
ATOM	378	N	PRO A	30147.733	-11.175	-6.287	1.00	0.00	N
ATOM	379	CA	PRO A	30147.919	-11.784	-4.967	1.00	0.00	C
ATOM	380	C	PRO A	30146.921	-11.253	-3.938	1.00	0.00	C
ATOM	381	O	PRO A	30147.010	-10.099	-3.519	1.00	0.00	O
ATOM	382	CB	PRO A	30149.341	-11.369	-4.593	1.00	0.00	C
ATOM	383	CG	PRO A	30149.544	-10.067	-5.286	1.00	0.00	C
ATOM	384	CD	PRO A	30148.751	-10.141	-6.565	1.00	0.00	C
ATOM	385	HA	PRO A	30147.855	-12.860	-5.014	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.419	-11.265	-3.521	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.040	-12.115	-4.942	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.181	-9.261	-4.667	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.593	-9.927	-5.506	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.285	-9.191	-6.775	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.386	-10.439	-7.385	1.00	0.00	H
ATOM	392	N	PRO A	31145.956	-12.087	-3.514	1.00	0.00	N
ATOM	393	CA	PRO A	31144.946	-11.687	-2.529	1.00	0.00	C
ATOM	394	C	PRO A	31145.541	-11.490	-1.138	1.00	0.00	C
ATOM	395	O	PRO A	31145.621	-12.431	-0.349	1.00	0.00	O
ATOM	396	CB	PRO A	31143.962	-12.857	-2.529	1.00	0.00	C

ATOM	397	CG	PRO A	31144.764	-14.027	-2.981	1.00	0.00	C
ATOM	398	CD	PRO A	31145.771	-13.483	-3.957	1.00	0.00	C
ATOM	399	HA	PRO A	31144.436	-10.783	-2.831	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.574	-13.006	-1.531	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.149	-12.649	-3.209	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.264	-14.479	-2.137	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.123	-14.746	-3.468	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.697	-14.035	-3.889	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.380	-13.519	-4.963	1.00	0.00	H
ATOM	406	N	PHE A	32145.954	-10.262	-0.844	1.00	0.00	N
ATOM	407	CA	PHE A	32146.541	-9.942	0.452	1.00	0.00	C
ATOM	408	C	PHE A	32145.685	-8.925	1.201	1.00	0.00	C
ATOM	409	O	PHE A	32144.726	-8.383	0.652	1.00	0.00	O
ATOM	410	CB	PHE A	32147.959	-9.398	0.273	1.00	0.00	C
ATOM	411	CG	PHE A	32148.045	-8.250	-0.693	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.676	-8.404	-1.917	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.495	-7.019	-0.376	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.757	-7.350	-2.808	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.573	-5.962	-1.262	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.205	-6.127	-2.480	1.00	0.00	C
ATOM	417	H	PHE A	32145.862	-9.553	-1.515	1.00	0.00	H
ATOM	418	HA	PHE A	32146.585	-10.853	1.030	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.329	-9.056	1.228	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.597	-10.190	-0.093	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.108	-9.360	-2.174	1.00	0.00	H
ATOM	422	HD2	PHE A	32147.001	-6.889	0.575	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.252	-7.482	-3.758	1.00	0.00	H

ATOM	424	HE2 PHE A	32147.140	-5.006	-1.004	1.00	0.00	H
ATOM	425	HZ PHE A	32148.266	-5.302	-3.174	1.00	0.00	H
ATOM	426	N TYR A	33146.038	-8.673	2.456	1.00	0.00	N
ATOM	427	CA TYR A	33145.302	-7.722	3.281	1.00	0.00	C
ATOM	428	C TYR A	33146.253	-6.758	3.983	1.00	0.00	C
ATOM	429	O TYR A	33147.107	-7.174	4.765	1.00	0.00	O
ATOM	430	CB TYR A	33144.453	-8.462	4.315	1.00	0.00	C
ATOM	431	CG TYR A	33143.141	-8.978	3.767	1.00	0.00	C
ATOM	432	CD1 TYR A	33142.756	-10.298	3.963	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.290	-8.145	3.051	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.559	-10.773	3.462	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.092	-8.612	2.547	1.00	0.00	C
ATOM	436	CZ TYR A	33140.731	-9.927	2.755	1.00	0.00	C
ATOM	437	OH TYR A	33139.538	-10.397	2.256	1.00	0.00	O
ATOM	438	H TYR A	33146.812	-9.137	2.838	1.00	0.00	H
ATOM	439	HA TYR A	33144.650	-7.156	2.632	1.00	0.00	H
ATOM	440	1HB TYR A	33145.010	-9.308	4.690	1.00	0.00	H
ATOM	441	2HB TYR A	33144.231	-7.793	5.134	1.00	0.00	H
ATOM	442	HD1 TYR A	33143.406	-10.958	4.516	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.577	-7.116	2.889	1.00	0.00	H
ATOM	444	HE1 TYR A	33141.276	-11.802	3.625	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.443	-7.949	1.995	1.00	0.00	H
ATOM	446	HH TYR A	33139.663	-11.281	1.906	1.00	0.00	H
ATOM	447	N GLY A	34146.099	-5.469	3.698	1.00	0.00	N
ATOM	448	CA GLY A	34146.951	-4.466	4.310	1.00	0.00	C
ATOM	449	C GLY A	34146.174	-3.251	4.775	1.00	0.00	C
ATOM	450	O GLY A	34144.997	-3.095	4.450	1.00	0.00	O

ATOM	451	H	GLY A	34145.401	-5.196	3.066	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.453	-4.907	5.160	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.693	-4.153	3.591	1.00	0.00	H
ATOM	454	N	VAL A	35146.834	-2.386	5.539	1.00	0.00	N
ATOM	455	CA	VAL A	35146.199	-1.178	6.051	1.00	0.00	C
ATOM	456	C	VAL A	35146.808	0.071	5.421	1.00	0.00	C
ATOM	457	O	VAL A	35148.011	0.125	5.164	1.00	0.00	O
ATOM	458	CB	VAL A	35146.323	-1.085	7.585	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.784	-1.017	8.004	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.552	0.115	8.113	1.00	0.00	C
ATOM	461	H	VAL A	35147.771	-2.566	5.764	1.00	0.00	H
ATOM	462	HA	VAL A	35145.150	-1.221	5.797	1.00	0.00	H
ATOM	463	HB	VAL A	35145.892	-1.978	8.014	1.00	0.00	H
ATOM	464	1HG1	VAL A	35148.204	-0.071	7.695	1.00	0.00	H
ATOM	465	2HG1	VAL A	35148.330	-1.823	7.536	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.856	-1.109	9.077	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.807	0.279	9.150	1.00	0.00	H
ATOM	468	2HG2	VAL A	35144.492	-0.072	8.028	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.810	0.992	7.536	1.00	0.00	H
ATOM	470	N	ILE A	36145.971	1.073	5.176	1.00	0.00	N
ATOM	471	CA	ILE A	36146.429	2.321	4.577	1.00	0.00	C
ATOM	472	C	ILE A	36147.374	3.064	5.516	1.00	0.00	C
ATOM	473	O	ILE A	36147.092	3.216	6.705	1.00	0.00	O
ATOM	474	CB	ILE A	36145.246	3.243	4.222	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.208	2.484	3.392	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.738	4.471	3.468	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.999	3.317	3.025	1.00	0.00	C

ATOM	478	H	ILE A	36145.024	0.971	5.403	1.00	0.00	H
ATOM	479	HA	ILE A	36146.957	2.080	3.666	1.00	0.00	H
ATOM	480	HB	ILE A	36144.788	3.577	5.141	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.667	2.145	2.476	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.863	1.628	3.955	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.851	5.295	4.157	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.022	4.736	2.703	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.690	4.253	3.008	1.00	0.00	H
ATOM	486	1HD1	ILE A	36143.202	4.357	3.236	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.148	2.992	3.605	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.786	3.198	1.974	1.00	0.00	H
ATOM	489	N	ARG A	37148.499	3.521	4.974	1.00	0.00	N
ATOM	490	CA	ARG A	37149.487	4.246	5.763	1.00	0.00	C
ATOM	491	C	ARG A	37149.637	5.680	5.265	1.00	0.00	C
ATOM	492	O	ARG A	37149.354	6.632	5.992	1.00	0.00	O
ATOM	493	CB	ARG A	37150.838	3.530	5.706	1.00	0.00	C
ATOM	494	CG	ARG A	37150.753	2.046	6.021	1.00	0.00	C
ATOM	495	CD	ARG A	37150.195	1.803	7.414	1.00	0.00	C
ATOM	496	NE	ARG A	37151.099	2.281	8.457	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.986	1.952	9.743	1.00	0.00	C
ATOM	498	NH1	ARG A	37150.012	1.148	10.146	1.00	0.00	N
ATOM	499	NH2	ARG A	37151.853	2.429	10.626	1.00	0.00	N
ATOM	500	H	ARG A	37148.667	3.368	4.021	1.00	0.00	H
ATOM	501	HA	ARG A	37149.145	4.267	6.787	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.251	3.643	4.714	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.507	3.990	6.419	1.00	0.00	H
ATOM	504	1HG	ARG A	37150.108	1.570	5.298	1.00	0.00	H

ATOM	505	2HG	ARG A	37151.743	1.618	5.960	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.251	2.321	7.505	1.00	0.00	H
ATOM	507	2HD	ARG A	37150.037	0.742	7.545	1.00	0.00	H
ATOM	508	HE	ARG A	37151.828	2.877	8.187	1.00	0.00	H
ATOM	509	1HH1	ARG A	37149.355	0.785	9.486	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.933	0.905	11.114	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.590	3.035	10.327	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.769	2.182	11.592	1.00	0.00	H
ATOM	513	N	TRP A	38150.084	5.827	4.022	1.00	0.00	N
ATOM	514	CA	TRP A	38150.270	7.146	3.428	1.00	0.00	C
ATOM	515	C	TRP A	38149.501	7.268	2.117	1.00	0.00	C
ATOM	516	O	TRP A	38149.565	6.385	1.262	1.00	0.00	O
ATOM	517	CB	TRP A	38151.761	7.418	3.190	1.00	0.00	C
ATOM	518	CG	TRP A	38152.021	8.634	2.350	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.212	9.911	2.791	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.116	8.683	0.922	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.417	10.753	1.725	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.363	10.022	0.565	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.014	7.725	-0.090	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.511	10.424	-0.760	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.162	8.125	-1.405	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.408	9.465	-1.729	1.00	0.00	C
ATOM	527	H	TRP A	38150.293	5.030	3.491	1.00	0.00	H
ATOM	528	HA	TRP A	38149.888	7.879	4.123	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.250	7.560	4.142	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.198	6.566	2.690	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.198	10.204	3.831	1.00	0.00	H

ATOM	532	HE1	TRP A	38152.577	11.718	1.783	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.825	6.687	0.140	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.699	11.454	-1.027	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.087	7.398	-2.200	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.516	9.733	-2.771	1.00	0.00	H
ATOM	537	N	ILE A	39148.781	8.374	1.963	1.00	0.00	N
ATOM	538	CA	ILE A	39148.004	8.624	0.756	1.00	0.00	C
ATOM	539	C	ILE A	39148.406	9.950	0.121	1.00	0.00	C
ATOM	540	O	ILE A	39148.069	11.019	0.631	1.00	0.00	O
ATOM	541	CB	ILE A	39146.492	8.645	1.051	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.088	7.406	1.853	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.699	8.725	-0.245	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.772	7.560	2.583	1.00	0.00	C
ATOM	545	H	ILE A	39148.776	9.043	2.680	1.00	0.00	H
ATOM	546	HA	ILE A	39148.205	7.824	0.056	1.00	0.00	H
ATOM	547	HB	ILE A	39146.274	9.527	1.633	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.997	6.564	1.182	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.852	7.195	2.587	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.687	9.034	-0.029	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.686	7.756	-0.720	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.162	9.443	-0.905	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.751	8.514	3.089	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.666	6.766	3.306	1.00	0.00	H
ATOM	555	3HD1	ILE A	39143.960	7.512	1.874	1.00	0.00	H
ATOM	556	N	GLY A	40149.135	9.876	-0.987	1.00	0.00	N
ATOM	557	CA	GLY A	40149.575	11.083	-1.663	1.00	0.00	C
ATOM	558	C	GLY A	40150.097	10.816	-3.060	1.00	0.00	C

ATOM	559	O	GLY A	40149.921	9.724	-3.600	1.00	0.00	O
ATOM	560	H	GLY A	40149.378	8.997	-1.348	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.745	11.769	-1.727	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.359	11.540	-1.079	1.00	0.00	H
ATOM	563	N	GLN A	41150.741	11.820	-3.644	1.00	0.00	N
ATOM	564	CA	GLN A	41151.294	11.701	-4.987	1.00	0.00	C
ATOM	565	C	GLN A	41152.768	12.102	-5.001	1.00	0.00	C
ATOM	566	O	GLN A	41153.105	13.259	-4.749	1.00	0.00	O
ATOM	567	CB	GLN A	41150.504	12.581	-5.956	1.00	0.00	C
ATOM	568	CG	GLN A	41148.998	12.402	-5.849	1.00	0.00	C
ATOM	569	CD	GLN A	41148.246	13.712	-5.972	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.223	14.518	-5.040	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.627	13.933	-7.125	1.00	0.00	N
ATOM	572	H	GLN A	41150.847	12.665	-3.160	1.00	0.00	H
ATOM	573	HA	GLN A	41151.205	10.672	-5.295	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.737	13.616	-5.753	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.804	12.344	-6.964	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.670	11.741	-6.637	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.767	11.960	-4.891	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.689	13.246	-7.822	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.135	14.773	-7.233	1.00	0.00	H
ATOM	580	N	PRO A	42153.674	11.150	-5.295	1.00	0.00	N
ATOM	581	CA	PRO A	42155.115	11.422	-5.336	1.00	0.00	C
ATOM	582	C	PRO A	42155.468	12.529	-6.324	1.00	0.00	C
ATOM	583	O	PRO A	42154.696	12.830	-7.233	1.00	0.00	O
ATOM	584	CB	PRO A	42155.723	10.089	-5.787	1.00	0.00	C
ATOM	585	CG	PRO A	42154.699	9.066	-5.440	1.00	0.00	C

ATOM	586	CD	PRO A	42153.371	9.743	- 5.609	1.00	0.00 C
ATOM	587	HA	PRO A	42155.495	11.680	-4.358	1.00	0.00 H
ATOM	588	1HB	PRO A	42155.909	10.118	-6.851	1.00	0.00 H
ATOM	589	2HB	PRO A	42156.648	9.915	-5.259	1.00	0.00 H
ATOM	590	1HG	PRO A	42154.778	8.222	-6.110	1.00	0.00 H
ATOM	591	2HG	PRO A	42154.830	8.746	-4.416	1.00	0.00 H
ATOM	592	1HD	PRO A	42153.021	9.641	-6.626	1.00	0.00 H
ATOM	593	2HD	PRO A	42152.648	9.341	-4.916	1.00	0.00 H
ATOM	594	N	PRO A	43156.647	13.151	-6.158	1.00	0.00 N
ATOM	595	CA	PRO A	43157.102	14.228	-7.040	1.00	0.00 C
ATOM	596	C	PRO A	43157.497	13.719	-8.421	1.00	0.00 C
ATOM	597	O	PRO A	43158.662	13.408	-8.668	1.00	0.00 O
ATOM	598	CB	PRO A	43158.322	14.792	-6.312	1.00	0.00 C
ATOM	599	CG	PRO A	43158.835	13.657	-5.497	1.00	0.00 C
ATOM	600	CD	PRO A	43157.629	12.850	-5.098	1.00	0.00 C
ATOM	601	HA	PRO A	43156.351	14.999	-7.142	1.00	0.00 H
ATOM	602	1HB	PRO A	43159.052	15.121	-7.037	1.00	0.00 H
ATOM	603	2HB	PRO A	43158.023	15.622	-5.691	1.00	0.00 H
ATOM	604	1HG	PRO A	43159.510	13.056	-6.088	1.00	0.00 H
ATOM	605	2HG	PRO A	43159.339	14.035	-4.619	1.00	0.00 H
ATOM	606	1HD	PRO A	43157.869	11.797	-5.082	1.00	0.00 H
ATOM	607	2HD	PRO A	43157.264	13.170	-4.134	1.00	0.00 H
ATOM	608	N	GLY A	44156.521	13.636	-9.317	1.00	0.00 N
ATOM	609	CA	GLY A	44156.790	13.162	-10.661	1.00	0.00 C
ATOM	610	C	GLY A	44155.552	12.623	-11.346	1.00	0.00 C
ATOM	611	O	GLY A	44155.237	13.014	-12.471	1.00	0.00 O
ATOM	612	H	GLY A	44155.610	13.897	-9.064	1.00	0.00 H

ATOM	613	1HA	GLY A	44157.183	13.980 -11.245	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.532	12.380 -10.613	1.00	0.00	H
ATOM	615	N	LEU A	45154.848	11.724 -10.670	1.00	0.00	N
ATOM	616	CA	LEU A	45153.637	11.131 -11.224	1.00	0.00	C
ATOM	617	C	LEU A	45152.440	11.401 -10.319	1.00	0.00	C
ATOM	618	O	LEU A	45152.369	10.888 -9.203	1.00	0.00	O
ATOM	619	CB	LEU A	45153.820	9.623 -11.409	1.00	0.00	C
ATOM	620	CG	LEU A	45154.384	8.886 -10.192	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.025	7.407 -10.247	1.00	0.00	C
ATOM	622	CD2	LEU A	45155.893	9.072 -10.107	1.00	0.00	C
ATOM	623	H	LEU A	45155.148	11.452 -9.775	1.00	0.00	H
ATOM	624	HA	LEU A	45153.455	11.583 -12.186	1.00	0.00	H
ATOM	625	1HB	LEU A	45152.860	9.192 -11.653	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.490	9.462 -12.240	1.00	0.00	H
ATOM	627	HG	LEU A	45153.945	9.301 -9.295	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.490	7.134 -9.349	1.00	0.00	H
ATOM	629	2HD1	LEU A	45154.928	6.819 -10.320	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.402	7.218 -11.108	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.162	9.381 -9.108	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.205	9.827 -10.813	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.385	8.138 -10.339	1.00	0.00	H
ATOM	634	N	ASN A	46151.505	12.210 -10.803	1.00	0.00	N
ATOM	635	CA	ASN A	46150.318	12.539 -10.025	1.00	0.00	C
ATOM	636	C	ASN A	46149.367	11.349 -9.971	1.00	0.00	C
ATOM	637	O	ASN A	46148.723	11.008 -10.964	1.00	0.00	O
ATOM	638	CB	ASN A	46149.608	13.751 -10.630	1.00	0.00	C
ATOM	639	CG	ASN A	46148.879	14.574 -9.586	1.00	0.00	C

ATOM	640	OD1	ASN A	46147.654	14.691	-9.615	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.632	15.152	-8.657	1.00	0.00	N
ATOM	642	H	ASN A	46151.613	12.592	-11.699	1.00	0.00	H
ATOM	643	HA	ASN A	46150.633	12.780	-9.020	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.337	14.383	-11.114	1.00	0.00	H
ATOM	645	2HB	ASN A	46148.889	13.411	-11.361	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.602	15.015	-8.696	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.188	15.690	-7.970	1.00	0.00	H
ATOM	648	N	GLU A	47149.285	10.721	-8.804	1.00	0.00	N
ATOM	649	CA	GLU A	47148.415	9.568	-8.612	1.00	0.00	C
ATOM	650	C	GLU A	47148.262	9.248	-7.130	1.00	0.00	C
ATOM	651	O	GLU A	47149.245	8.978	-6.440	1.00	0.00	O
ATOM	652	CB	GLU A	47148.970	8.349	-9.354	1.00	0.00	C
ATOM	653	CG	GLU A	47150.485	8.230	-9.290	1.00	0.00	C
ATOM	654	CD	GLU A	47151.036	7.254	-10.311	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.168	7.641	-11.491	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.336	6.103	-9.930	1.00	0.00	O
ATOM	657	H	GLU A	47149.824	11.041	-8.052	1.00	0.00	H
ATOM	658	HA	GLU A	47147.445	9.813	-9.017	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.543	7.455	-8.923	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.680	8.411	-10.392	1.00	0.00	H
ATOM	661	1HG	GLU A	47150.917	9.201	-9.474	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.767	7.894	-8.303	1.00	0.00	H
ATOM	663	N	VAL A	48147.026	9.273	-6.644	1.00	0.00	N
ATOM	664	CA	VAL A	48146.758	8.977	-5.243	1.00	0.00	C
ATOM	665	C	VAL A	48147.120	7.533	-4.918	1.00	0.00	C
ATOM	666	O	VAL A	48146.338	6.615	-5.169	1.00	0.00	O

ATOM	667	CB	VAL A	48145.279	9.219	-4.888	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.066	9.114	-3.386	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.820	10.574	-5.405	1.00	0.00	C
ATOM	670	H	VAL A	48146.280	9.489	-7.241	1.00	0.00	H
ATOM	671	HA	VAL A	48147.366	9.636	-4.640	1.00	0.00	H
ATOM	672	HB	VAL A	48144.684	8.455	-5.368	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.014	8.072	-3.102	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.142	9.606	-3.117	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.889	9.587	-2.872	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.651	10.515	-6.470	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.580	11.314	-5.202	1.00	0.00	H
ATOM	678	3HG2	VAL A	48143.903	10.857	-4.910	1.00	0.00	H
ATOM	679	N	LEU A	49148.309	7.339	-4.362	1.00	0.00	N
ATOM	680	CA	LEU A	49148.777	6.005	-4.005	1.00	0.00	C
ATOM	681	C	LEU A	49148.742	5.809	-2.496	1.00	0.00	C
ATOM	682	O	LEU A	49149.455	6.486	-1.756	1.00	0.00	O
ATOM	683	CB	LEU A	49150.197	5.781	-4.528	1.00	0.00	C
ATOM	684	CG	LEU A	49150.343	5.837	-6.050	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.745	6.281	-6.435	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.022	4.483	-6.664	1.00	0.00	C
ATOM	687	H	LEU A	49148.888	8.110	-4.186	1.00	0.00	H
ATOM	688	HA	LEU A	49148.115	5.287	-4.466	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.840	6.535	-4.097	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.532	4.812	-4.192	1.00	0.00	H
ATOM	691	HG	LEU A	49149.643	6.559	-6.446	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.964	7.230	-5.968	1.00	0.00	H
ATOM	693	2HD1	LEU A	49151.808	6.384	-7.507	1.00	0.00	H

ATOM	694	3HD1	LEU A	49152.461	5.543	-6.102	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.950	4.582	-7.737	1.00	0.00	H
ATOM	696	2HD2	LEU A	49149.083	4.122	-6.272	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.807	3.782	-6.420	1.00	0.00	H
ATOM	698	N	ALA A	50147.908	4.880	-2.044	1.00	0.00	N
ATOM	699	CA	ALA A	50147.783	4.602	-0.621	1.00	0.00	C
ATOM	700	C	ALA A	50148.733	3.488	-0.195	1.00	0.00	C
ATOM	701	O	ALA A	50148.596	2.343	-0.625	1.00	0.00	O
ATOM	702	CB	ALA A	50146.347	4.234	-0.280	1.00	0.00	C
ATOM	703	H	ALA A	50147.363	4.374	-2.682	1.00	0.00	H
ATOM	704	HA	ALA A	50148.036	5.505	-0.086	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.227	3.162	-0.329	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.677	4.704	-0.985	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.115	4.577	0.718	1.00	0.00	H
ATOM	708	N	GLY A	51149.697	3.832	0.653	1.00	0.00	N
ATOM	709	CA	GLY A	51150.656	2.850	1.123	1.00	0.00	C
ATOM	710	C	GLY A	51150.023	1.805	2.019	1.00	0.00	C
ATOM	711	O	GLY A	51149.665	2.092	3.162	1.00	0.00	O
ATOM	712	H	GLY A	51149.757	4.759	0.962	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.098	2.357	0.270	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.434	3.357	1.674	1.00	0.00	H
ATOM	715	N	LEU A	52149.882	0.589	1.501	1.00	0.00	N
ATOM	716	CA	LEU A	52149.286	-0.502	2.264	1.00	0.00	C
ATOM	717	C	LEU A	52150.362	-1.350	2.933	1.00	0.00	C
ATOM	718	O	LEU A	52151.348	-1.734	2.303	1.00	0.00	O
ATOM	719	CB	LEU A	52148.423	-1.376	1.353	1.00	0.00	C
ATOM	720	CG	LEU A	52147.132	-0.721	0.860	1.00	0.00	C

ATOM	721	CD1	LEU A	52146.434	-1.615	-0.154	1.00	0.00 C
ATOM	722	CD2	LEU A	52146.209	-0.418	2.031	1.00	0.00 C
ATOM	723	H	LEU A	52150.186	0.422	0.585	1.00	0.00 H
ATOM	724	HA	LEU A	52148.660	-0.067	3.029	1.00	0.00 H
ATOM	725	1HB	LEU A	52149.014	-1.654	0.492	1.00	0.00 H
ATOM	726	2HB	LEU A	52148.162	-2.274	1.893	1.00	0.00 H
ATOM	727	HG	LEU A	52147.372	0.212	0.373	1.00	0.00 H
ATOM	728	1HD1	LEU A	52147.160	-2.260	-0.625	1.00	0.00 H
ATOM	729	2HD1	LEU A	52145.957	-1.002	-0.905	1.00	0.00 H
ATOM	730	3HD1	LEU A	52145.689	-2.215	0.348	1.00	0.00 H
ATOM	731	1HD2	LEU A	52146.708	0.245	2.721	1.00	0.00 H
ATOM	732	2HD2	LEU A	52145.955	-1.339	2.536	1.00	0.00 H
ATOM	733	3HD2	LEU A	52145.308	0.053	1.666	1.00	0.00 H
ATOM	734	N	GLU A	53150.166	-1.641	4.216	1.00	0.00 N
ATOM	735	CA	GLU A	53151.119	-2.445	4.972	1.00	0.00 C
ATOM	736	C	GLU A	53150.624	-3.880	5.117	1.00	0.00 C
ATOM	737	O	GLU A	53149.715	-4.158	5.899	1.00	0.00 O
ATOM	738	CB	GLU A	53151.353	-1.830	6.353	1.00	0.00 C
ATOM	739	CG	GLU A	53152.363	-2.593	7.195	1.00	0.00 C
ATOM	740	CD	GLU A	53151.997	-2.614	8.666	1.00	0.00 C
ATOM	741	OE1	GLU A	53152.380	-3.580	9.360	1.00	0.00 O
ATOM	742	OE2	GLU A	53151.327	-1.665	9.126	1.00	0.00 O
ATOM	743	H	GLU A	53149.362	-1.306	4.663	1.00	0.00 H
ATOM	744	HA	GLU A	53152.053	-2.451	4.428	1.00	0.00 H
ATOM	745	1HB	GLU A	53151.710	-0.819	6.229	1.00	0.00 H
ATOM	746	2HB	GLU A	53150.414	-1.808	6.887	1.00	0.00 H
ATOM	747	1HG	GLU A	53152.415	-3.610	6.838	1.00	0.00 H

ATOM	748	2HG	GLU A	53153.330	-2.124	7.086	1.00	0.00	H
ATOM	749	N	LEU A	54151.229	-4.789	4.359	1.00	0.00	N
ATOM	750	CA	LEU A	54150.850	-6.196	4.403	1.00	0.00	C
ATOM	751	C	LEU A	54151.179	-6.805	5.763	1.00	0.00	C
ATOM	752	O	LEU A	54152.268	-6.599	6.300	1.00	0.00	O
ATOM	753	CB	LEU A	54151.564	-6.973	3.296	1.00	0.00	C
ATOM	754	CG	LEU A	54151.397	-6.396	1.889	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.493	-6.907	0.968	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.025	-6.742	1.331	1.00	0.00	C
ATOM	757	H	LEU A	54151.948	-4.506	3.755	1.00	0.00	H
ATOM	758	HA	LEU A	54149.784	-6.257	4.244	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.618	-7.003	3.529	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.183	-7.984	3.293	1.00	0.00	H
ATOM	761	HG	LEU A	54151.478	-5.319	1.938	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.458	-6.635	1.372	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.376	-6.467	-0.011	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.426	-7.982	0.891	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.885	-7.812	1.357	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.953	-6.394	0.312	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.262	-6.266	1.929	1.00	0.00	H
ATOM	768	N	GLU A	55150.231	-7.556	6.314	1.00	0.00	N
ATOM	769	CA	GLU A	55150.420	-8.196	7.610	1.00	0.00	C
ATOM	770	C	GLU A	55151.540	-9.230	7.551	1.00	0.00	C
ATOM	771	O	GLU A	55152.232	-9.466	8.542	1.00	0.00	O
ATOM	772	CB	GLU A	55149.120	-8.861	8.068	1.00	0.00	C
ATOM	773	CG	GLU A	55148.144	-7.900	8.725	1.00	0.00	C
ATOM	774	CD	GLU A	55148.143	-8.013	10.237	1.00	0.00	C

ATOM	775	OE1	GLU A	55149.238	-7.979	10.837	1.00	0.00	O
ATOM	776	OE2	GLU A	55147.046	-8.137	10.823	1.00	0.00	O
ATOM	777	H	GLU A	55149.385	-7.684	5.837	1.00	0.00	H
ATOM	778	HA	GLU A	55150.690	-7.429	8.321	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.635	-9.303	7.210	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.358	-9.639	8.778	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.415	-6.890	8.457	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.148	-8.113	8.362	1.00	0.00	H
ATOM	783	N	ASP A	56151.713	-9.843	6.385	1.00	0.00	N
ATOM	784	CA	ASP A	56152.748	-10.852	6.199	1.00	0.00	C
ATOM	785	C	ASP A	56153.972	-10.256	5.509	1.00	0.00	C
ATOM	786	O	ASP A	56153.857	-9.318	4.722	1.00	0.00	O
ATOM	787	CB	ASP A	56152.207	-12.024	5.379	1.00	0.00	C
ATOM	788	CG	ASP A	56152.759	-13.358	5.842	1.00	0.00	C
ATOM	789	OD1	ASP A	56152.112	-14.007	6.689	1.00	0.00	O
ATOM	790	OD2	ASP A	56153.839	-13.754	5.355	1.00	0.00	O
ATOM	791	H	ASP A	56151.130	-9.612	5.632	1.00	0.00	H
ATOM	792	HA	ASP A	56153.040	-11.212	7.174	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.131	-12.052	5.468	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.474	-11.884	4.341	1.00	0.00	H
ATOM	795	N	GLU A	57155.142	-10.810	5.811	1.00	0.00	N
ATOM	796	CA	GLU A	57156.387	-10.334	5.219	1.00	0.00	C
ATOM	797	C	GLU A	57156.650	-11.019	3.882	1.00	0.00	C
ATOM	798	O	GLU A	57156.986	-12.203	3.836	1.00	0.00	O
ATOM	799	CB	GLU A	57157.558	-10.584	6.172	1.00	0.00	C
ATOM	800	CG	GLU A	57157.490	-9.760	7.448	1.00	0.00	C
ATOM	801	CD	GLU A	57158.429	-10.272	8.522	1.00	0.00	C

ATOM	802	OE1	GLU A	57159.608 -10.536	8.205	1.00	0.00	O
ATOM	803	OE2	GLU A	57157.985 -10.409	9.682	1.00	0.00	O
ATOM	804	H	GLU A	57155.169 -11.556	6.445	1.00	0.00	H
ATOM	805	HA	GLU A	57156.291 -9.272	5.053	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.567 -11.629	6.445	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.480 -10.345	5.663	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.756 -8.740	7.216	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.480 -9.791	7.828	1.00	0.00	H
ATOM	810	N	CYS A	58156.495 -10.269	2.797	1.00	0.00	N
ATOM	811	CA	CYS A	58156.716 -10.804	1.459	1.00	0.00	C
ATOM	812	C	CYS A	58157.997 -10.242	0.851	1.00	0.00	C
ATOM	813	O	CYS A	58158.317 -9.067	1.030	1.00	0.00	O
ATOM	814	CB	CYS A	58155.524 -10.482	0.554	1.00	0.00	C
ATOM	815	SG	CYS A	58154.176 -11.683	0.653	1.00	0.00	S
ATOM	816	H	CYS A	58156.226 -9.331	2.898	1.00	0.00	H
ATOM	817	HA	CYS A	58156.812 -11.877	1.542	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.125 -9.517	0.830	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.861 -10.447	-0.472	1.00	0.00	H
ATOM	820	HG	CYS A	58154.554 -12.533	0.888	1.00	0.00	H
ATOM	821	N	ALA A	59158.726 -11.089	0.133	1.00	0.00	N
ATOM	822	CA	ALA A	59159.972 -10.677	-0.502	1.00	0.00	C
ATOM	823	C	ALA A	59159.708 -9.725	-1.664	1.00	0.00	C
ATOM	824	O	ALA A	59159.129 -10.113	-2.678	1.00	0.00	O
ATOM	825	CB	ALA A	59160.747 -11.895	-0.981	1.00	0.00	C
ATOM	826	H	ALA A	59158.418 -12.014	0.026	1.00	0.00	H
ATOM	827	HA	ALA A	59160.570 -10.168	0.239	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.352 -11.625	-1.834	1.00	0.00	H

ATOM	829	2HB	ALA A	59160.054	-12.674	-1.265	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.385	-12.252	-0.186	1.00	0.00	H
ATOM	831	N	GLY A	60160.136	-8.476	-1.508	1.00	0.00	N
ATOM	832	CA	GLY A	60159.937	-7.489	-2.551	1.00	0.00	C
ATOM	833	C	GLY A	60159.402	-6.175	-2.012	1.00	0.00	C
ATOM	834	O	GLY A	60159.649	-5.115	-2.587	1.00	0.00	O
ATOM	835	H	GLY A	60160.591	-8.225	-0.677	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.880	-7.305	-3.044	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.236	-7.880	-3.274	1.00	0.00	H
ATOM	838	N	CYS A	61158.669	-6.247	-0.907	1.00	0.00	N
ATOM	839	CA	CYS A	61158.098	-5.055	-0.290	1.00	0.00	C
ATOM	840	C	CYS A	61159.175	-4.242	0.422	1.00	0.00	C
ATOM	841	O	CYS A	61160.259	-4.749	0.712	1.00	0.00	O
ATOM	842	CB	CYS A	61156.999	-5.444	0.700	1.00	0.00	C
ATOM	843	SG	CYS A	61155.806	-6.635	0.046	1.00	0.00	S
ATOM	844	H	CYS A	61158.508	-7.121	-0.495	1.00	0.00	H
ATOM	845	HA	CYS A	61157.667	-4.450	-1.074	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.452	-5.882	1.576	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.453	-4.556	0.988	1.00	0.00	H
ATOM	848	HG	CYS A	61156.257	-7.181	-0.602	1.00	0.00	H
ATOM	849	N	THR A	62158.869	-2.979	0.700	1.00	0.00	N
ATOM	850	CA	THR A	62159.811	-2.096	1.378	1.00	0.00	C
ATOM	851	C	THR A	62159.450	-1.944	2.852	1.00	0.00	C
ATOM	852	O	THR A	62158.508	-2.571	3.338	1.00	0.00	O
ATOM	853	CB	THR A	62159.834	-0.725	0.702	1.00	0.00	C
ATOM	854	OG1	THR A	62158.569	-0.422	0.140	1.00	0.00	O
ATOM	855	CG2	THR A	62160.865	-0.617	-0.400	1.00	0.00	C

ATOM	856	H	THR A	62157.989	-2.632	0.443	1.00	0.00	H
ATOM	857	HA	THR A	62160.793	-2.540	1.305	1.00	0.00	H
ATOM	858	HB	THR A	62160.063	0.027	1.444	1.00	0.00	H
ATOM	859	HG1	THR A	62158.577	0.476	-0.200	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.107	0.422	-0.567	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.466	-1.044	-1.309	1.00	0.00	H
ATOM	862	3HG2	THR A	62161.757	-1.153	-0.112	1.00	0.00	H
ATOM	863	N	ASP A	63160.204	-1.108	3.557	1.00	0.00	N
ATOM	864	CA	ASP A	63159.963	-0.873	4.977	1.00	0.00	C
ATOM	865	C	ASP A	63159.263	0.463	5.197	1.00	0.00	C
ATOM	866	O	ASP A	63159.501	1.144	6.194	1.00	0.00	O
ATOM	867	CB	ASP A	63161.283	-0.905	5.752	1.00	0.00	C
ATOM	868	CG	ASP A	63162.354	-0.050	5.104	1.00	0.00	C
ATOM	869	OD1	ASP A	63163.372	-0.615	4.652	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.175	1.185	5.048	1.00	0.00	O
ATOM	871	H	ASP A	63160.940	-0.637	3.114	1.00	0.00	H
ATOM	872	HA	ASP A	63159.324	-1.665	5.339	1.00	0.00	H
ATOM	873	1HB	ASP A	63161.114	-0.538	6.753	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.640	-1.922	5.800	1.00	0.00	H
ATOM	875	N	GLY A	64158.398	0.833	4.258	1.00	0.00	N
ATOM	876	CA	GLY A	64157.676	2.087	4.367	1.00	0.00	C
ATOM	877	C	GLY A	64158.318	3.199	3.562	1.00	0.00	C
ATOM	878	O	GLY A	64158.413	4.336	4.025	1.00	0.00	O
ATOM	879	H	GLY A	64158.249	0.250	3.485	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.666	1.940	4.016	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.644	2.382	5.406	1.00	0.00	H
ATOM	882	N	THR A	65158.763	2.871	2.353	1.00	0.00	N

ATOM	883	CA	THR A	65159.400	3.850	1.481	1.00	0.00	C
ATOM	884	C	THR A	65159.035	3.600	0.022	1.00	0.00	C
ATOM	885	O	THR A	65159.312	2.531	-0.524	1.00	0.00	O
ATOM	886	CB	THR A	65160.919	3.805	1.652	1.00	0.00	C
ATOM	887	OG1	THR A	65161.395	2.473	1.559	1.00	0.00	O
ATOM	888	CG2	THR A	65161.390	4.368	2.976	1.00	0.00	C
ATOM	889	H	THR A	65158.659	1.948	2.040	1.00	0.00	H
ATOM	890	HA	THR A	65159.044	4.829	1.766	1.00	0.00	H
ATOM	891	HB	THR A	65161.377	4.385	0.865	1.00	0.00	H
ATOM	892	HG1	THR A	65161.050	2.065	0.762	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.959	5.348	3.123	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.466	4.445	2.972	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.078	3.714	3.777	1.00	0.00	H
ATOM	896	N	PHE A	66158.411	4.591	-0.606	1.00	0.00	N
ATOM	897	CA	PHE A	66158.008	4.479	-2.003	1.00	0.00	C
ATOM	898	C	PHE A	66159.094	5.022	-2.927	1.00	0.00	C
ATOM	899	O	PHE A	66159.201	6.230	-3.130	1.00	0.00	O
ATOM	900	CB	PHE A	66156.697	5.230	-2.241	1.00	0.00	C
ATOM	901	CG	PHE A	66156.012	4.848	-3.522	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.529	5.822	-4.381	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.849	3.516	-3.865	1.00	0.00	C
ATOM	904	CE1	PHE A	66154.899	5.474	-5.560	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.218	3.161	-5.042	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.742	4.141	-5.892	1.00	0.00	C
ATOM	907	H	PHE A	66158.218	5.419	-0.118	1.00	0.00	H
ATOM	908	HA	PHE A	66157.857	3.432	-2.220	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.019	5.023	-1.427	1.00	0.00	H

ATOM	910	2HB	PHE A	66156.900	6.290	-2.274	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.652	6.864	-4.124	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.220	2.748	-3.202	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.528	6.242	-6.223	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.098	2.119	-5.299	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.250	3.867	-6.812	1.00	0.00	H
ATOM	916	N	ARG A	67159.896	4.119	-3.483	1.00	0.00	N
ATOM	917	CA	ARG A	67160.973	4.509	-4.386	1.00	0.00	C
ATOM	918	C	ARG A	67161.960	5.438	-3.686	1.00	0.00	C
ATOM	919	O	ARG A	67162.592	6.281	-4.322	1.00	0.00	O
ATOM	920	CB	ARG A	67160.404	5.194	-5.629	1.00	0.00	C
ATOM	921	CG	ARG A	67159.247	4.438	-6.263	1.00	0.00	C
ATOM	922	CD	ARG A	67158.335	5.371	-7.047	1.00	0.00	C
ATOM	923	NE	ARG A	67158.608	5.327	-8.481	1.00	0.00	N
ATOM	924	CZ	ARG A	67158.258	4.314	-9.271	1.00	0.00	C
ATOM	925	NH1	ARG A	67157.622	3.261	-8.771	1.00	0.00	N
ATOM	926	NH2	ARG A	67158.544	4.354	-10.566	1.00	0.00	N
ATOM	927	H	ARG A	67159.759	3.170	-3.282	1.00	0.00	H
ATOM	928	HA	ARG A	67161.493	3.612	-4.686	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.055	6.179	-5.355	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.188	5.290	-6.365	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.642	3.691	-6.935	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.673	3.959	-5.484	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.310	5.077	-6.876	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.483	6.380	-6.691	1.00	0.00	H
ATOM	935	HE	ARG A	67159.077	6.091	-8.876	1.00	0.00	H
ATOM	936	1HH1	ARG A	67157.403	3.225	-7.795	1.00	0.00	H

ATOM	937	2HH1	ARG A	67157.361	2.504	-9.370	1.00	0.00	H
ATOM	938	1HH2	ARG A	67159.022	5.145	-10.947	1.00	0.00	H
ATOM	939	2HH2	ARG A	67158.282	3.594	-11.159	1.00	0.00	H
ATOM	940	N	GLY A	68162.086	5.279	-2.372	1.00	0.00	N
ATOM	941	CA	GLY A	68162.998	6.111	-1.610	1.00	0.00	C
ATOM	942	C	GLY A	68162.279	7.180	-0.808	1.00	0.00	C
ATOM	943	O	GLY A	68162.795	7.658	0.202	1.00	0.00	O
ATOM	944	H	GLY A	68161.558	4.591	-1.917	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.558	5.485	-0.931	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.686	6.590	-2.291	1.00	0.00	H
ATOM	947	N	THR A	69161.086	7.556	-1.260	1.00	0.00	N
ATOM	948	CA	THR A	69160.299	8.575	-0.576	1.00	0.00	C
ATOM	949	C	THR A	69159.624	8.002	0.666	1.00	0.00	C
ATOM	950	O	THR A	69158.538	7.428	0.585	1.00	0.00	O
ATOM	951	CB	THR A	69159.245	9.152	-1.523	1.00	0.00	C
ATOM	952	OG1	THR A	69159.760	9.271	-2.836	1.00	0.00	O
ATOM	953	CG2	THR A	69158.746	10.518	-1.101	1.00	0.00	C
ATOM	954	H	THR A	69160.728	7.138	-2.070	1.00	0.00	H
ATOM	955	HA	THR A	69160.969	9.365	-0.275	1.00	0.00	H
ATOM	956	HB	THR A	69158.396	8.484	-1.549	1.00	0.00	H
ATOM	957	HG1	THR A	69159.603	8.454	-3.317	1.00	0.00	H
ATOM	958	1HG2	THR A	69157.684	10.586	-1.285	1.00	0.00	H
ATOM	959	2HG2	THR A	69159.259	11.280	-1.670	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.939	10.663	-0.048	1.00	0.00	H
ATOM	961	N	ARG A	70160.275	8.161	1.813	1.00	0.00	N
ATOM	962	CA	ARG A	70159.738	7.659	3.073	1.00	0.00	C
ATOM	963	C	ARG A	70158.513	8.463	3.499	1.00	0.00	C

ATOM	964	O	ARG A	70158.554	9.692	3.554	1.00	0.00	O
ATOM	965	CB	ARG A	70160.806	7.716	4.166	1.00	0.00	C
ATOM	966	CG	ARG A	70160.332	7.181	5.508	1.00	0.00	C
ATOM	967	CD	ARG A	70160.920	7.975	6.663	1.00	0.00	C
ATOM	968	NE	ARG A	70162.233	7.472	7.062	1.00	0.00	N
ATOM	969	CZ	ARG A	70163.084	8.150	7.828	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.766	9.356	8.281	1.00	0.00	N
ATOM	971	NH2	ARG A	70164.258	7.619	8.143	1.00	0.00	N
ATOM	972	H	ARG A	70161.137	8.627	1.813	1.00	0.00	H
ATOM	973	HA	ARG A	70159.444	6.631	2.921	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.659	7.134	3.851	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.112	8.743	4.300	1.00	0.00	H
ATOM	976	1HG	ARG A	70159.255	7.245	5.551	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.636	6.149	5.600	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.017	9.007	6.361	1.00	0.00	H
ATOM	979	2HD	ARG A	70160.248	7.909	7.506	1.00	0.00	H
ATOM	980	HE	ARG A	70162.494	6.584	6.741	1.00	0.00	H
ATOM	981	1HH1	ARG A	70161.882	9.762	8.048	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.409	9.859	8.857	1.00	0.00	H
ATOM	983	1HH2	ARG A	70164.503	6.711	7.805	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.898	8.127	8.720	1.00	0.00	H
ATOM	985	N	TYR A	71157.426	7.760	3.799	1.00	0.00	N
ATOM	986	CA	TYR A	71156.189	8.408	4.220	1.00	0.00	C
ATOM	987	C	TYR A	71155.841	8.032	5.657	1.00	0.00	C
ATOM	988	O	TYR A	71155.425	8.880	6.447	1.00	0.00	O
ATOM	989	CB	TYR A	71155.042	8.019	3.287	1.00	0.00	C
ATOM	990	CG	TYR A	71155.198	8.551	1.879	1.00	0.00	C

ATOM	991	CD1 TYR A	71155.353	7.686	0.804	1.00	0.00	C
ATOM	992	CD2 TYR A	71155.192	9.917	1.628	1.00	0.00	C
ATOM	993	CE1 TYR A	71155.496	8.168	-0.485	1.00	0.00	C
ATOM	994	CE2 TYR A	71155.334	10.406	0.343	1.00	0.00	C
ATOM	995	CZ TYR A	71155.486	9.528	-0.709	1.00	0.00	C
ATOM	996	OH TYR A	71155.628	10.012	-1.989	1.00	0.00	O
ATOM	997	H TYR A	71157.456	6.783	3.735	1.00	0.00	H
ATOM	998	HA TYR A	71156.339	9.476	4.167	1.00	0.00	H
ATOM	999	1HB TYR A	71154.983	6.943	3.229	1.00	0.00	H
ATOM	1000	2HB TYR A	71154.116	8.405	3.687	1.00	0.00	H
ATOM	1001	HD1 TYR A	71155.360	6.621	0.982	1.00	0.00	H
ATOM	1002	HD2 TYR A	71155.073	10.603	2.454	1.00	0.00	H
ATOM	1003	HE1 TYR A	71155.615	7.480	-1.308	1.00	0.00	H
ATOM	1004	HE2 TYR A	71155.326	11.472	0.168	1.00	0.00	H
ATOM	1005	HH TYR A	71154.788	10.360	-2.295	1.00	0.00	H
ATOM	1006	N PHE A	72156.013	6.757	5.987	1.00	0.00	N
ATOM	1007	CA PHE A	72155.716	6.268	7.329	1.00	0.00	C
ATOM	1008	C PHE A	72156.781	5.282	7.797	1.00	0.00	C
ATOM	1009	O PHE A	72157.740	5.001	7.079	1.00	0.00	O
ATOM	1010	CB PHE A	72154.339	5.603	7.358	1.00	0.00	C
ATOM	1011	CG PHE A	72154.122	4.623	6.241	1.00	0.00	C
ATOM	1012	CD1 PHE A	72154.270	3.261	6.457	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.771	5.062	4.974	1.00	0.00	C
ATOM	1014	CE1 PHE A	72154.071	2.357	5.431	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.570	4.163	3.944	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.720	2.809	4.173	1.00	0.00	C
ATOM	1017	H PHE A	72156.346	6.129	5.313	1.00	0.00	H

ATOM	1018	HA	PHE A	72155.710	7.117	7.997	1.00	0.00	H
ATOM	1019	1HB	PHE A	72154.223	5.072	8.291	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.578	6.365	7.285	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.543	2.908	7.440	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.653	6.120	4.795	1.00	0.00	H
ATOM	1023	HE1	PHE A	72154.190	1.300	5.612	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.297	4.519	2.962	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.564	2.104	3.370	1.00	0.00	H
ATOM	1026	N	THR A	73156.605	4.760	9.007	1.00	0.00	N
ATOM	1027	CA	THR A	73157.551	3.805	9.573	1.00	0.00	C
ATOM	1028	C	THR A	73156.871	2.469	9.856	1.00	0.00	C
ATOM	1029	O	THR A	73156.113	2.338	10.817	1.00	0.00	O
ATOM	1030	CB	THR A	73158.162	4.361	10.860	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.244	5.211	11.525	1.00	0.00	O
ATOM	1032	CG2	THR A	73159.432	5.152	10.626	1.00	0.00	C
ATOM	1033	H	THR A	73155.821	5.023	9.533	1.00	0.00	H
ATOM	1034	HA	THR A	73158.337	3.648	8.850	1.00	0.00	H
ATOM	1035	HB	THR A	73158.401	3.539	11.518	1.00	0.00	H
ATOM	1036	HG1	THR A	73156.707	4.692	12.128	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.457	5.998	11.296	1.00	0.00	H
ATOM	1038	2HG2	THR A	73159.456	5.500	9.604	1.00	0.00	H
ATOM	1039	3HG2	THR A	73160.288	4.521	10.812	1.00	0.00	H
ATOM	1040	N	CYS A	74157.149	1.479	9.013	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.565	0.153	9.173	1.00	0.00	C
ATOM	1042	C	CYS A	74157.648	-0.922	9.171	1.00	0.00	C
ATOM	1043	O	CYS A	74158.817	-0.639	8.913	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.556	-0.121	8.056	1.00	0.00	C

ATOM	1045	SG	CYS A	74153.872	0.415	8.436	1.00	0.00 S
ATOM	1046	H	CYS A	74157.762	1.645	8.266	1.00	0.00 H
ATOM	1047	HA	CYS A	74156.052	0.128	10.122	1.00	0.00 H
ATOM	1048	1HB	CYS A	74155.871	0.396	7.162	1.00	0.00 H
ATOM	1049	2HB	CYS A	74155.527	-1.183	7.860	1.00	0.00 H
ATOM	1050	HG	CYS A	74153.370	-0.356	8.709	1.00	0.00 H
ATOM	1051	N	ALA A	75157.249	-2.157	9.460	1.00	0.00 N
ATOM	1052	CA	ALA A	75158.185	-3.274	9.491	1.00	0.00 C
ATOM	1053	C	ALA A	75158.860	-3.461	8.137	1.00	0.00 C
ATOM	1054	O	ALA A	75158.563	-2.747	7.180	1.00	0.00 O
ATOM	1055	CB	ALA A	75157.469	-4.549	9.908	1.00	0.00 C
ATOM	1056	H	ALA A	75156.303	-2.320	9.657	1.00	0.00 H
ATOM	1057	HA	ALA A	75158.940	-3.054	10.232	1.00	0.00 H
ATOM	1058	1HB	ALA A	75156.425	-4.479	9.643	1.00	0.00 H
ATOM	1059	2HB	ALA A	75157.562	-4.681	10.976	1.00	0.00 H
ATOM	1060	3HB	ALA A	75157.913	-5.393	9.401	1.00	0.00 H
ATOM	1061	N	LEU A	76159.770	-4.427	8.064	1.00	0.00 N
ATOM	1062	CA	LEU A	76160.488	-4.709	6.827	1.00	0.00 C
ATOM	1063	C	LEU A	76159.705	-5.684	5.953	1.00	0.00 C
ATOM	1064	O	LEU A	76159.141	-6.660	6.447	1.00	0.00 O
ATOM	1065	CB	LEU A	76161.873	-5.281	7.135	1.00	0.00 C
ATOM	1066	CG	LEU A	76162.966	-4.238	7.375	1.00	0.00 C
ATOM	1067	CD1	LEU A	76164.095	-4.830	8.205	1.00	0.00 C
ATOM	1068	CD2	LEU A	76163.495	-3.708	6.051	1.00	0.00 C
ATOM	1069	H	LEU A	76159.964	-4.963	8.862	1.00	0.00 H
ATOM	1070	HA	LEU A	76160.604	-3.778	6.292	1.00	0.00 H
ATOM	1071	1HB	LEU A	76161.795	-5.901	8.016	1.00	0.00 H

ATOM	1072	2HB	LEU A	76162.176	-5.901	6.305	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.547	-3.408	7.926	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.504	-4.068	8.851	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76164.869	-5.199	7.548	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.713	-5.643	8.803	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.973	-2.752	6.212	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76162.676	-3.589	5.357	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76164.213	-4.406	5.645	1.00	0.00	H
ATOM	1080	N	LYS A	77159.676	-5.413	4.652	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.962	-6.266	3.709	1.00	0.00	C
ATOM	1082	C	LYS A	77157.473	-6.313	4.036	1.00	0.00	C
ATOM	1083	O	LYS A	77156.840	-7.365	3.949	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.546	-7.681	3.727	1.00	0.00	C
ATOM	1085	CG	LYS A	77161.022	-7.735	3.366	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.222	-7.948	1.874	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.466	-7.232	1.372	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.176	-8.018	0.325	1.00	0.00	N
ATOM	1089	H	LYS A	77160.145	-4.620	4.319	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.089	-5.848	2.722	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.425	-8.095	4.717	1.00	0.00	H
ATOM	1092	2HB	LYS A	77159.002	-8.292	3.022	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.487	-6.804	3.653	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.484	-8.552	3.902	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.325	-9.005	1.681	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.360	-7.566	1.347	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.174	-6.278	0.956	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.133	-7.070	2.205	1.00	0.00	H

ATOM	1099	1HZ	LYS A	77162.881	-7.702	-0.620	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.953	-9.029	0.426	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.204	-7.890	0.418	1.00	0.00	H
ATOM	1102	N	LYS A	78156.919	-5.165	4.412	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.503	-5.075	4.751	1.00	0.00	C
ATOM	1104	C	LYS A	78154.937	-3.711	4.366	1.00	0.00	C
ATOM	1105	O	LYS A	78154.084	-3.163	5.064	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.299	-5.322	6.246	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.835	-6.663	6.719	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.588	-6.870	8.205	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.371	-7.748	8.450	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.592	-7.299	9.636	1.00	0.00	N
ATOM	1111	H	LYS A	78157.475	-4.359	4.462	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.980	-5.838	4.193	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.801	-4.543	6.800	1.00	0.00	H
ATOM	1114	2HB	LYS A	78154.242	-5.284	6.464	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.342	-7.451	6.169	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.898	-6.702	6.531	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.454	-7.342	8.641	1.00	0.00	H
ATOM	1118	2HD	LYS A	78155.426	-5.908	8.669	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.736	-7.712	7.578	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.703	-8.764	8.611	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78154.204	-6.763	10.284	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.207	-8.121	10.144	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.803	-6.691	9.336	1.00	0.00	H
ATOM	1124	N	ALA A	79155.417	-3.170	3.252	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.959	-1.871	2.774	1.00	0.00	C

ATOM	1126	C	ALA A	79154.768	-1.878	1.261	1.00	0.00	C
ATOM	1127	O	ALA A	79155.729	-1.743	0.504	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.942	-0.784	3.179	1.00	0.00	C
ATOM	1129	H	ALA A	79156.096	-3.655	2.738	1.00	0.00	H
ATOM	1130	HA	ALA A	79154.010	-1.659	3.246	1.00	0.00	H
ATOM	1131	1HB	ALA A	79155.400	0.113	3.442	1.00	0.00	H
ATOM	1132	2HB	ALA A	79156.607	-0.573	2.354	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.519	-1.117	4.028	1.00	0.00	H
ATOM	1134	N	LEU A	80153.522	-2.038	0.829	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.204	-2.063	-0.595	1.00	0.00	C
ATOM	1136	C	LEU A	80152.375	-0.846	-0.989	1.00	0.00	C
ATOM	1137	O	LEU A	80151.319	-0.587	-0.410	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.448	-3.345	-0.947	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.015	-3.461	-2.409	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.127	-4.072	-3.247	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.742	-4.287	-2.524	1.00	0.00	C
ATOM	1142	H	LEU A	80152.798	-2.140	1.481	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.135	-2.042	-1.143	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.083	-4.188	-0.712	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.565	-3.399	-0.328	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.811	-2.473	-2.795	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.127	-3.621	-4.229	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80152.964	-5.136	-3.340	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80154.078	-3.894	-2.769	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80150.387	-4.261	-3.543	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80149.988	-3.878	-1.868	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.950	-5.308	-2.240	1.00	0.00	H

ATOM	1153	N	PHE A	81152.859	-0.100	-1.976	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.162	1.091	-2.449	1.00	0.00	C
ATOM	1155	C	PHE A	81151.323	0.776	-3.683	1.00	0.00	C
ATOM	1156	O	PHE A	81151.796	0.136	-4.621	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.164	2.201	-2.768	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.781	2.823	-1.548	1.00	0.00	C
ATOM	1159	CD1	PHE A	81154.882	2.242	-0.940	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.260	3.988	-1.009	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.453	2.812	0.182	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.826	4.563	0.113	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.924	3.973	0.710	1.00	0.00	C
ATOM	1164	H	PHE A	81153.705	-0.357	-2.399	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.507	1.426	-1.658	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.961	1.794	-3.372	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.662	2.981	-3.323	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.297	1.334	-1.352	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.401	4.449	-1.475	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.311	2.349	0.646	1.00	0.00	H
ATOM	1171	HE2	PHE A	81153.410	5.471	0.523	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.368	4.421	1.586	1.00	0.00	H
ATOM	1173	N	VAL A	82150.074	1.230	-3.674	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.168	0.997	-4.793	1.00	0.00	C
ATOM	1175	C	VAL A	82148.207	2.167	-4.975	1.00	0.00	C
ATOM	1176	O	VAL A	82148.090	3.029	-4.105	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.354	-0.295	-4.597	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.264	-1.512	-4.631	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.570	-0.241	-3.294	1.00	0.00	C

ATOM	1180	H	VAL A	82149.753	1.734	-2.896	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.764	0.890	-5.687	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.648	-0.379	-5.412	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.134	-1.294	-5.233	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.732	-2.349	-5.058	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.574	-1.758	-3.626	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.581	-1.214	-2.825	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.551	0.050	-3.498	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.025	0.482	-2.631	1.00	0.00	H
ATOM	1189	N	LYS A	83147.522	2.190	-6.114	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.571	3.255	-6.413	1.00	0.00	C
ATOM	1191	C	LYS A	83145.380	3.204	-5.464	1.00	0.00	C
ATOM	1192	O	LYS A	83144.707	2.180	-5.348	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.091	3.145	-7.860	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.213	3.230	-8.882	1.00	0.00	C
ATOM	1195	CD	LYS A	83146.736	2.827	-10.268	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.304	3.741	-11.341	1.00	0.00	C
ATOM	1197	NZ	LYS A	83147.522	3.022	-12.627	1.00	0.00	N
ATOM	1198	H	LYS A	83147.660	1.475	-6.769	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.079	4.199	-6.281	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.586	2.200	-7.989	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.393	3.945	-8.058	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.577	4.246	-8.918	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.012	2.569	-8.579	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.055	1.814	-10.467	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.658	2.878	-10.297	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.613	4.554	-11.507	1.00	0.00	H

ATOM	1207	2HE	LYS A	83148.247	4.137	-10.995	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.420	2.497	-12.595	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.557	3.699	-13.414	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83146.746	2.349	-12.796	1.00	0.00	H
ATOM	1211	N	LEU A	84145.125	4.318	-4.788	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.015	4.410	-3.849	1.00	0.00	C
ATOM	1213	C	LEU A	84142.685	4.149	-4.549	1.00	0.00	C
ATOM	1214	O	LEU A	84141.743	3.636	-3.944	1.00	0.00	O
ATOM	1215	CB	LEU A	84143.997	5.791	-3.189	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.811	6.051	-2.258	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.917	5.194	-1.006	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.737	7.526	-1.891	1.00	0.00	C
ATOM	1219	H	LEU A	84145.698	5.101	-4.926	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.162	3.659	-3.087	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.908	5.907	-2.620	1.00	0.00	H
ATOM	1222	2HB	LEU A	84143.984	6.537	-3.969	1.00	0.00	H
ATOM	1223	HG	LEU A	84141.896	5.786	-2.767	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.435	5.745	-0.236	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.465	4.291	-1.234	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84141.927	4.936	-0.662	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.795	7.729	-1.404	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.815	8.124	-2.787	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.549	7.772	-1.222	1.00	0.00	H
ATOM	1230	N	LYS A	85142.616	4.505	-5.827	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.401	4.310	-6.611	1.00	0.00	C
ATOM	1232	C	LYS A	85141.072	2.826	-6.754	1.00	0.00	C
ATOM	1233	O	LYS A	85139.912	2.453	-6.932	1.00	0.00	O

ATOM	1234	CB	LYS A	85141.555	4.944	-7.994	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.656	4.315	-8.833	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.327	5.341	-9.732	1.00	0.00	C
ATOM	1237	CE	LYS A	85142.637	5.432	-11.083	1.00	0.00	C
ATOM	1238	NZ	LYS A	85141.191	5.755	-10.950	1.00	0.00	N
ATOM	1239	H	LYS A	85143.400	4.910	-6.254	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.590	4.797	-6.091	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.622	4.844	-8.529	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.779	5.994	-7.874	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.397	3.888	-8.175	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.226	3.537	-9.447	1.00	0.00	H
ATOM	1245	1HD	LYS A	85143.284	6.308	-9.252	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.358	5.055	-9.881	1.00	0.00	H
ATOM	1247	1HE	LYS A	85143.117	6.205	-11.666	1.00	0.00	H
ATOM	1248	2HE	LYS A	85142.741	4.484	-11.590	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85140.781	5.957	-11.884	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85141.065	6.590	-10.342	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85140.683	4.953	-10.526	1.00	0.00	H
ATOM	1252	N	SER A	86142.098	1.984	-6.674	1.00	0.00	N
ATOM	1253	CA	SER A	86141.913	0.542	-6.794	1.00	0.00	C
ATOM	1254	C	SER A	86141.835	-0.115	-5.420	1.00	0.00	C
ATOM	1255	O	SER A	86142.239	-1.265	-5.247	1.00	0.00	O
ATOM	1256	CB	SER A	86143.057	-0.073	-7.602	1.00	0.00	C
ATOM	1257	OG	SER A	86143.348	0.704	-8.751	1.00	0.00	O
ATOM	1258	H	SER A	86143.000	2.340	-6.531	1.00	0.00	H
ATOM	1259	HA	SER A	86140.984	0.370	-7.316	1.00	0.00	H
ATOM	1260	1HB	SER A	86143.942	-0.126	-6.986	1.00	0.00	H

ATOM	1261	2HB	SER A	86142.778	-1.068	-7.916	1.00	0.00	H
ATOM	1262	HG	SER A	86144.296	0.706	-8.905	1.00	0.00	H
ATOM	1263	N	CYS A	87141.311	0.621	-4.445	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.180	0.107	-3.086	1.00	0.00	C
ATOM	1265	C	CYS A	87139.712	0.006	-2.683	1.00	0.00	C
ATOM	1266	O	CYS A	87138.868	0.749	-3.182	1.00	0.00	O
ATOM	1267	CB	CYS A	87141.929	1.008	-2.104	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.720	1.039	-2.349	1.00	0.00	S
ATOM	1269	H	CYS A	87141.005	1.530	-4.642	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.616	-0.880	-3.061	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.568	2.020	-2.207	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.741	0.665	-1.096	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.138	0.829	-1.511	1.00	0.00	H
ATOM	1274	N	ARG A	88139.416	-0.921	-1.777	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.050	-1.121	-1.307	1.00	0.00	C
ATOM	1276	C	ARG A	88138.005	-1.203	0.219	1.00	0.00	C
ATOM	1277	O	ARG A	88138.924	-1.729	0.846	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.458	-2.394	-1.918	1.00	0.00	C
ATOM	1279	CG	ARG A	88136.431	-2.125	-3.009	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.076	-2.726	-2.667	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.097	-1.701	-2.312	1.00	0.00	N
ATOM	1282	CZ	ARG A	88133.646	-0.781	-3.162	1.00	0.00	C
ATOM	1283	NH1	ARG A	88134.084	-0.752	-4.414	1.00	0.00	N
ATOM	1284	NH2	ARG A	88132.754	0.114	-2.758	1.00	0.00	N
ATOM	1285	H	ARG A	88140.132	-1.484	-1.416	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.463	-0.273	-1.627	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.260	-2.978	-2.346	1.00	0.00	H

ATOM	1288	2HB	ARG A	88136.983	-2.969	-1.138	1.00	0.00	H
ATOM	1289	1HG	ARG A	88136.320	-1.057	-3.128	1.00	0.00	H
ATOM	1290	2HG	ARG A	88136.784	-2.557	-3.934	1.00	0.00	H
ATOM	1291	1HD	ARG A	88134.714	-3.274	-3.524	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.195	-3.401	-1.832	1.00	0.00	H
ATOM	1293	HE	ARG A	88133.756	-1.699	-1.393	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88134.757	-1.424	-4.726	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88133.742	-0.058	-5.047	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88132.420	0.097	-1.815	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88132.416	0.806	-3.395	1.00	0.00	H
ATOM	1298	N	PRO A	89136.930	-0.683	0.838	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.774	-0.703	2.296	1.00	0.00	C
ATOM	1300	C	PRO A	89136.931	-2.105	2.875	1.00	0.00	C
ATOM	1301	O	PRO A	89136.144	-3.003	2.574	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.347	-0.195	2.512	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.044	0.615	1.300	1.00	0.00	C
ATOM	1304	CD	PRO A	89135.786	-0.038	0.168	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.475	-0.037	2.777	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.675	-1.035	2.605	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.308	0.406	3.408	1.00	0.00	H
ATOM	1308	1HG	PRO A	89133.981	0.605	1.108	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.391	1.628	1.439	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.160	-0.772	-0.319	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.122	0.703	-0.541	1.00	0.00	H
ATOM	1312	N	ASP A	90137.951	-2.286	3.707	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.210	-3.579	4.329	1.00	0.00	C
ATOM	1314	C	ASP A	90137.750	-3.586	5.783	1.00	0.00	C

ATOM	1315	O	ASP A	90138.340	-2.918	6.633	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.699	-3.915	4.251	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.952	-5.409	4.179	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.458	-5.974	5.171	1.00	0.00	O
ATOM	1319	OD2	ASP A	90139.643	-6.013	3.131	1.00	0.00	O
ATOM	1320	H	ASP A	90138.543	-1.532	3.909	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.652	-4.326	3.784	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.121	-3.455	3.370	1.00	0.00	H
ATOM	1323	2HB	ASP A	90140.195	-3.527	5.128	1.00	0.00	H
ATOM	1324	N	SER A	91136.697	-4.345	6.063	1.00	0.00	N
ATOM	1325	CA	SER A	91136.163	-4.439	7.417	1.00	0.00	C
ATOM	1326	C	SER A	91136.405	-5.826	8.004	1.00	0.00	C
ATOM	1327	O	SER A	91135.654	-6.286	8.864	1.00	0.00	O
ATOM	1328	CB	SER A	91134.664	-4.130	7.419	1.00	0.00	C
ATOM	1329	OG	SER A	91134.264	-3.549	8.648	1.00	0.00	O
ATOM	1330	H	SER A	91136.270	-4.856	5.344	1.00	0.00	H
ATOM	1331	HA	SER A	91136.672	-3.708	8.027	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.440	-3.440	6.619	1.00	0.00	H
ATOM	1333	2HB	SER A	91134.111	-5.046	7.272	1.00	0.00	H
ATOM	1334	HG	SER A	91134.508	-2.620	8.658	1.00	0.00	H
ATOM	1335	N	ARG A	92137.459	-6.487	7.536	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.799	-7.821	8.017	1.00	0.00	C
ATOM	1337	C	ARG A	92138.193	-7.782	9.490	1.00	0.00	C
ATOM	1338	O	ARG A	92137.991	-8.751	10.223	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.940	-8.410	7.187	1.00	0.00	C
ATOM	1340	CG	ARG A	92138.468	-9.193	5.972	1.00	0.00	C
ATOM	1341	CD	ARG A	92138.300	-8.294	4.757	1.00	0.00	C

ATOM	1342	NE	ARG A	92136.945	-8.354	4.214	1.00	0.00	N
ATOM	1343	CZ	ARG A	92136.620	-7.964	2.984	1.00	0.00	C
ATOM	1344	NH1	ARG A	92137.549	-7.484	2.165	1.00	0.00	N
ATOM	1345	NH2	ARG A	92135.364	-8.053	2.569	1.00	0.00	N
ATOM	1346	H	ARG A	92138.021	-6.068	6.851	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.925	-8.445	7.907	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.575	-7.605	6.845	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.520	-9.073	7.812	1.00	0.00	H
ATOM	1350	1HG	ARG A	92139.195	-9.958	5.744	1.00	0.00	H
ATOM	1351	2HG	ARG A	92137.518	-9.654	6.201	1.00	0.00	H
ATOM	1352	1HD	ARG A	92138.517	-7.276	5.043	1.00	0.00	H
ATOM	1353	2HD	ARG A	92138.997	-8.609	3.994	1.00	0.00	H
ATOM	1354	HE	ARG A	92136.240	-8.704	4.798	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92138.499	-7.414	2.472	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92137.299	-7.193	1.242	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92134.660	-8.414	3.182	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92135.120	-7.759	1.646	1.00	0.00	H
ATOM	1359	N	PHE A	93138.757	-6.657	9.917	1.00	0.00	N
ATOM	1360	CA	PHE A	93139.180	-6.492	11.304	1.00	0.00	C
ATOM	1361	C	PHE A	93138.401	-5.369	11.982	1.00	0.00	C
ATOM	1362	O	PHE A	93138.910	-4.705	12.885	1.00	0.00	O
ATOM	1363	CB	PHE A	93140.679	-6.198	11.369	1.00	0.00	C
ATOM	1364	CG	PHE A	93141.523	-7.226	10.669	1.00	0.00	C
ATOM	1365	CD1	PHE A	93142.351	-8.069	11.393	1.00	0.00	C
ATOM	1366	CD2	PHE A	93141.487	-7.347	9.290	1.00	0.00	C
ATOM	1367	CE1	PHE A	93143.128	-9.015	10.752	1.00	0.00	C
ATOM	1368	CE2	PHE A	93142.262	-8.291	8.643	1.00	0.00	C

ATOM	1369	CZ	PHE A	93143.084	-9.127	9.375	1.00	0.00	C
ATOM	1370	H	PHE A	93138.892	-5.919	9.286	1.00	0.00	H
ATOM	1371	HA	PHE A	93138.980	-7.417	11.823	1.00	0.00	H
ATOM	1372	1HB	PHE A	93140.872	-5.241	10.908	1.00	0.00	H
ATOM	1373	2HB	PHE A	93140.986	-6.162	12.404	1.00	0.00	H
ATOM	1374	HD1	PHE A	93142.386	-7.983	12.469	1.00	0.00	H
ATOM	1375	HD2	PHE A	93140.845	-6.695	8.717	1.00	0.00	H
ATOM	1376	HE1	PHE A	93143.770	-9.667	11.326	1.00	0.00	H
ATOM	1377	HE2	PHE A	93142.225	-8.376	7.567	1.00	0.00	H
ATOM	1378	HZ	PHE A	93143.690	-9.865	8.873	1.00	0.00	H
ATOM	1379	N	ALA A	94137.162	-5.162	11.543	1.00	0.00	N
ATOM	1380	CA	ALA A	94136.315	-4.119	12.109	1.00	0.00	C
ATOM	1381	C	ALA A	94136.137	-4.315	13.612	1.00	0.00	C
ATOM	1382	O	ALA A	94135.661	-5.358	14.061	1.00	0.00	O
ATOM	1383	CB	ALA A	94134.964	-4.101	11.410	1.00	0.00	C
ATOM	1384	H	ALA A	94136.811	-5.723	10.819	1.00	0.00	H
ATOM	1385	HA	ALA A	94136.796	-3.168	11.936	1.00	0.00	H
ATOM	1386	1HB	ALA A	94134.900	-3.232	10.773	1.00	0.00	H
ATOM	1387	2HB	ALA A	94134.175	-4.065	12.147	1.00	0.00	H
ATOM	1388	3HB	ALA A	94134.856	-4.994	10.812	1.00	0.00	H
ATOM	1389	N	SER A	95136.521	-3.304	14.385	1.00	0.00	N
ATOM	1390	CA	SER A	95136.403	-3.364	15.837	1.00	0.00	C
ATOM	1391	C	SER A	95134.940	-3.417	16.263	1.00	0.00	C
ATOM	1392	O	SER A	95134.056	-2.942	15.549	1.00	0.00	O
ATOM	1393	CB	SER A	95137.088	-2.155	16.476	1.00	0.00	C
ATOM	1394	OG	SER A	95138.479	-2.154	16.204	1.00	0.00	O
ATOM	1395	H	SER A	95136.892	-2.498	13.968	1.00	0.00	H

ATOM	1396	HA	SER A	95136.895	-4.265	16.172	1.00	0.00	H
ATOM	1397	1HB	SER A	95136.657	-1.249	16.081	1.00	0.00	H
ATOM	1398	2HB	SER A	95136.943	-2.187	17.546	1.00	0.00	H
ATOM	1399	HG	SER A	95138.947	-2.573	16.930	1.00	0.00	H
ATOM	1400	N	LEU A	96134.689	-3.999	17.432	1.00	0.00	N
ATOM	1401	CA	LEU A	96133.333	-4.114	17.954	1.00	0.00	C
ATOM	1402	C	LEU A	96132.453	-4.926	17.010	1.00	0.00	C
ATOM	1403	O	LEU A	96131.929	-4.402	16.027	1.00	0.00	O
ATOM	1404	CB	LEU A	96132.727	-2.726	18.167	1.00	0.00	C
ATOM	1405	CG	LEU A	96131.527	-2.680	19.115	1.00	0.00	C
ATOM	1406	CD1	LEU A	96131.490	-1.359	19.866	1.00	0.00	C
ATOM	1407	CD2	LEU A	96130.232	-2.895	18.344	1.00	0.00	C
ATOM	1408	H	LEU A	96135.436	-4.359	17.956	1.00	0.00	H
ATOM	1409	HA	LEU A	96133.386	-4.624	18.904	1.00	0.00	H
ATOM	1410	1HB	LEU A	96133.496	-2.077	18.561	1.00	0.00	H
ATOM	1411	2HB	LEU A	96132.413	-2.342	17.208	1.00	0.00	H
ATOM	1412	HG	LEU A	96131.621	-3.475	19.840	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96131.103	-0.587	19.218	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96132.487	-1.097	20.183	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96130.851	-1.456	20.732	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96130.444	-3.422	17.426	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96129.787	-1.938	18.116	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96129.548	-3.477	18.945	1.00	0.00	H
ATOM	1419	N	GLN A	97132.295	-6.211	17.314	1.00	0.00	N
ATOM	1420	CA	GLN A	97131.478	-7.096	16.492	1.00	0.00	C
ATOM	1421	C	GLN A	97130.853	-8.204	17.339	1.00	0.00	C
ATOM	1422	O	GLN A	97131.005	-9.388	17.040	1.00	0.00	O

ATOM	1423	CB	GLN A	97132.321	-7.708	15.371	1.00	0.00	C
ATOM	1424	CG	GLN A	97131.511	-8.109	14.149	1.00	0.00	C
ATOM	1425	CD	GLN A	97132.049	-9.356	13.476	1.00	0.00	C
ATOM	1426	OE1	GLN A	97132.386	-10.337	14.138	1.00	0.00	O
ATOM	1427	NE2	GLN A	97132.134	-9.323	12.151	1.00	0.00	N
ATOM	1428	H	GLN A	97132.738	-6.571	18.110	1.00	0.00	H
ATOM	1429	HA	GLN A	97130.687	-6.506	16.055	1.00	0.00	H
ATOM	1430	1HB	GLN A	97133.065	-6.987	15.061	1.00	0.00	H
ATOM	1431	2HB	GLN A	97132.821	-8.588	15.750	1.00	0.00	H
ATOM	1432	1HG	GLN A	97130.492	-8.296	14.455	1.00	0.00	H
ATOM	1433	2HG	GLN A	97131.530	-7.296	13.438	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97131.847	-8.508	11.689	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97132.478	-10.116	11.690	1.00	0.00	H
ATOM	1436	N	PRO A	98130.137	-7.830	18.413	1.00	0.00	N
ATOM	1437	CA	PRO A	98129.487	-8.797	19.305	1.00	0.00	C
ATOM	1438	C	PRO A	98128.279	-9.461	18.655	1.00	0.00	C
ATOM	1439	O	PRO A	98128.061	-9.336	17.449	1.00	0.00	O
ATOM	1440	CB	PRO A	98129.050	-7.941	20.495	1.00	0.00	C
ATOM	1441	CG	PRO A	98128.876	-6.573	19.933	1.00	0.00	C
ATOM	1442	CD	PRO A	98129.904	-6.437	18.843	1.00	0.00	C
ATOM	1443	HA	PRO A	98130.179	-9.556	19.637	1.00	0.00	H
ATOM	1444	1HB	PRO A	98128.126	-8.326	20.898	1.00	0.00	H
ATOM	1445	2HB	PRO A	98129.817	-7.960	21.256	1.00	0.00	H
ATOM	1446	1HG	PRO A	98127.881	-6.469	19.526	1.00	0.00	H
ATOM	1447	2HG	PRO A	98129.046	-5.836	20.703	1.00	0.00	H
ATOM	1448	1HD	PRO A	98129.515	-5.843	18.029	1.00	0.00	H
ATOM	1449	2HD	PRO A	98130.810	-5.998	19.233	1.00	0.00	H

ATOM	1450	N	SER A	99127.494	-10.169	19.462	1.00	0.00	N
ATOM	1451	CA	SER A	99126.306	-10.854	18.966	1.00	0.00	C
ATOM	1452	C	SER A	99125.385	-11.247	20.115	1.00	0.00	C
ATOM	1453	O	SER A	99125.840	-11.743	21.146	1.00	0.00	O
ATOM	1454	CB	SER A	99126.704	-12.096	18.168	1.00	0.00	C
ATOM	1455	OG	SER A	99127.637	-11.774	17.150	1.00	0.00	O
ATOM	1456	H	SER A	99127.719	-10.231	20.413	1.00	0.00	H
ATOM	1457	HA	SER A	99125.778	-10.172	18.315	1.00	0.00	H
ATOM	1458	1HB	SER A	99127.153	-12.820	18.832	1.00	0.00	H
ATOM	1459	2HB	SER A	99125.824	-12.526	17.710	1.00	0.00	H
ATOM	1460	HG	SER A	99128.438	-12.286	17.275	1.00	0.00	H
ATOM	1461	N	GLY A	100124.088	-11.024	19.932	1.00	0.00	N
ATOM	1462	CA	GLY A	100123.124	-11.361	20.963	1.00	0.00	C
ATOM	1463	C	GLY A	100121.706	-11.447	20.429	1.00	0.00	C
ATOM	1464	O	GLY A	100120.983	-10.451	20.420	1.00	0.00	O
ATOM	1465	H	GLY A	100123.782	-10.626	19.090	1.00	0.00	H
ATOM	1466	1HA	GLY A	100123.394	-12.314	21.393	1.00	0.00	H
ATOM	1467	2HA	GLY A	100123.161	-10.607	21.736	1.00	0.00	H
ATOM	1468	N	PRO A	101121.277	-12.635	19.970	1.00	0.00	N
ATOM	1469	CA	PRO A	101119.927	-12.833	19.431	1.00	0.00	C
ATOM	1470	C	PRO A	101118.856	-12.759	20.514	1.00	0.00	C
ATOM	1471	O	PRO A	101117.797	-12.164	20.313	1.00	0.00	O
ATOM	1472	CB	PRO A	101119.986	-14.239	18.833	1.00	0.00	C
ATOM	1473	CG	PRO A	101121.058	-14.933	19.599	1.00	0.00	C
ATOM	1474	CD	PRO A	101122.072	-13.877	19.941	1.00	0.00	C
ATOM	1475	HA	PRO A	101119.703	-12.117	18.655	1.00	0.00	H
ATOM	1476	1HB	PRO A	101119.030	-14.727	18.958	1.00	0.00	H

ATOM	1477	2HB	PRO A 1011	20.230 -14.177	17.782	1.00	0.00	H
ATOM	1478	1HG	PRO A 1011	20.646 -15.363	20.501	1.00	0.00	H
ATOM	1479	2HG	PRO A 1011	21.508 -15.702	18.989	1.00	0.00	H
ATOM	1480	1HD	PRO A 1011	22.513 -14.076	20.907	1.00	0.00	H
ATOM	1481	2HD	PRO A 1011	22.836 -13.827	19.179	1.00	0.00	H
ATOM	1482	N	SER A 1021	19.138 -13.367	21.661	1.00	0.00	N
ATOM	1483	CA	SER A 1021	18.198 -13.369	22.776	1.00	0.00	C
ATOM	1484	C	SER A 1021	16.891 -14.051	22.386	1.00	0.00	C
ATOM	1485	O	SER A 1021	16.548 -14.126	21.206	1.00	0.00	O
ATOM	1486	CB	SER A 1021	17.922 -11.938	23.242	1.00	0.00	C
ATOM	1487	OG	SER A 1021	18.809 -11.557	24.277	1.00	0.00	O
ATOM	1488	H	SER A 1021	19.999 -13.824	21.760	1.00	0.00	H
ATOM	1489	HA	SER A 1021	18.650 -13.921	23.588	1.00	0.00	H
ATOM	1490	1HB	SER A 1021	18.047 -11.261	22.410	1.00	0.00	H
ATOM	1491	2HB	SER A 1021	16.908 -11.872	23.609	1.00	0.00	H
ATOM	1492	HG	SER A 1021	19.210 -10.712	24.061	1.00	0.00	H
ATOM	1493	N	SER A 1031	16.168 -14.548	23.383	1.00	0.00	N
ATOM	1494	CA	SER A 1031	14.898 -15.225	23.144	1.00	0.00	C
ATOM	1495	C	SER A 1031	13.728 -14.368	23.617	1.00	0.00	C
ATOM	1496	O	SER A 1031	13.660 -13.981	24.784	1.00	0.00	O
ATOM	1497	CB	SER A 1031	14.875 -16.578	23.856	1.00	0.00	C
ATOM	1498	OG	SER A 1031	15.624 -16.535	25.059	1.00	0.00	O
ATOM	1499	H	SER A 1031	16.495 -14.458	24.303	1.00	0.00	H
ATOM	1500	HA	SER A 1031	14.804 -15.386	22.081	1.00	0.00	H
ATOM	1501	1HB	SER A 1031	13.855 -16.840	24.093	1.00	0.00	H
ATOM	1502	2HB	SER A 1031	15.299 -17.330	23.208	1.00	0.00	H
ATOM	1503	HG	SER A 1031	16.371 -17.133	24.992	1.00	0.00	H

ATOM	1504	N	GLY A 104	112.809	-14.076	22.702	1.00	0.00	N
ATOM	1505	CA	GLY A 104	111.653	-13.267	23.046	1.00	0.00	C
ATOM	1506	C	GLY A 104	112.037	-11.875	23.512	1.00	0.00	C
ATOM	1507	O	GLY A 104	111.578	-11.468	24.600	1.00	0.00	O
ATOM	1508	OXT	GLY A 104	112.796	-11.196	22.791	1.00	0.00	O
ATOM	1509	H	GLY A 104	112.915	-14.411	21.788	1.00	0.00	H
ATOM	1510	1HA	GLY A 104	111.018	-13.179	22.176	1.00	0.00	H
ATOM	1511	2HA	GLY A 104	111.103	-13.760	23.833	1.00	0.00	H
TER	1512	GLY A 104							
ENDMDL									

Three-Dimensional Structure Coordinate Table 5

ATOM 1	N	GLY A	1119.934	2.440	-12.362	1.00	0.00	N
ATOM 2	CA	GLY A	1120.718	2.882	-11.176	1.00	0.00	C
ATOM 3	C	GLY A	1121.589	4.087	-11.473	1.00	0.00	C
ATOM 4	O	GLY A	1122.802	4.050	-11.266	1.00	0.00	O
ATOM 5	1H	GLY A	1120.404	1.634	-12.822	1.00	0.00	H
ATOM 6	2H	GLY A	1119.854	3.217	-13.049	1.00	0.00	H
ATOM 7	3H	GLY A	1118.978	2.151	-12.071	1.00	0.00	H
ATOM 8	1HA	GLY A	1120.034	3.135	-10.380	1.00	0.00	H
ATOM 9	2HA	GLY A	1121.348	2.067	-10.851	1.00	0.00	H
ATOM10	N	SER A	2120.970	5.157	-11.960	1.00	0.00	N
ATOM11	CA	SER A	2121.698	6.378	-12.287	1.00	0.00	C
ATOM12	C	SER A	2122.748	6.115	-13.362	1.00	0.00	C
ATOM13	O	SER A	2123.937	6.005	-13.067	1.00	0.00	O
ATOM14	CB	SER A	2122.364	6.950	-11.035	1.00	0.00	C
ATOM15	OG	SER A	2121.480	7.806	-10.331	1.00	0.00	O

ATOM16	H	SER A	2120.001	5.125 -12.104	1.00	0.00	H
ATOM17	HA	SER A	2120.985	7.096 -12.665	1.00	0.00	H
ATOM18	1HB	SER A	2122.654	6.140 -10.382	1.00	0.00	H
ATOM19	2HB	SER A	2123.239	7.514 -11.321	1.00	0.00	H
ATOM20	HG	SER A	2121.576	7.661 -9.387	1.00	0.00	H
ATOM21	N	SER A	3122.299	6.016 -14.609	1.00	0.00	N
ATOM22	CA	SER A	3123.200	5.765 -15.728	1.00	0.00	C
ATOM23	C	SER A	3123.931	4.438 -15.551	1.00	0.00	C
ATOM24	O	SER A	3123.690	3.708 -14.590	1.00	0.00	O
ATOM25	CB	SER A	3124.211	6.905 -15.859	1.00	0.00	C
ATOM26	OG	SER A	3123.566	8.124 -16.188	1.00	0.00	O
ATOM27	H	SER A	3121.339	6.112 -14.781	1.00	0.00	H
ATOM28	HA	SER A	3122.605	5.717 -16.628	1.00	0.00	H
ATOM29	1HB	SER A	3124.734	7.030 -14.923	1.00	0.00	H
ATOM30	2HB	SER A	3124.919	6.666 -16.639	1.00	0.00	H
ATOM31	HG	SER A	3122.788	8.233 -15.637	1.00	0.00	H
ATOM32	N	GLY A	4124.827	4.134 -16.485	1.00	0.00	N
ATOM33	CA	GLY A	4125.580	2.896 -16.413	1.00	0.00	C
ATOM34	C	GLY A	4126.815	3.017 -15.541	1.00	0.00	C
ATOM35	O	GLY A	4127.021	4.037 -14.883	1.00	0.00	O
ATOM36	H	GLY A	4124.978	4.755 -17.227	1.00	0.00	H
ATOM37	1HA	GLY A	4124.942	2.122 -16.011	1.00	0.00	H
ATOM38	2HA	GLY A	4125.883	2.614 -17.411	1.00	0.00	H
ATOM39	N	SER A	5127.638	1.973 -15.537	1.00	0.00	N
ATOM40	CA	SER A	5128.859	1.967 -14.740	1.00	0.00	C
ATOM41	C	SER A	5128.541	2.115 -13.255	1.00	0.00	C
ATOM42	O	SER A	5127.375	2.182 -12.864	1.00	0.00	O

ATOM43	CB	SER A	5129.792	3.093	-15.188	1.00	0.00	C
ATOM44	OG	SER A	5130.310	2.842	-16.482	1.00	0.00	O
ATOM45	H	SER A	5127.419	1.190	-16.083	1.00	0.00	H
ATOM46	HA	SER A	5129.352	1.019	-14.897	1.00	0.00	H
ATOM47	1HB	SER A	5129.245	4.025	-15.208	1.00	0.00	H
ATOM48	2HB	SER A	5130.615	3.174	-14.493	1.00	0.00	H
ATOM49	HG	SER A	5130.634	1.939	-16.528	1.00	0.00	H
ATOM50	N	SER A	6129.584	2.166	-12.434	1.00	0.00	N
ATOM51	CA	SER A	6129.415	2.307	-10.992	1.00	0.00	C
ATOM52	C	SER A	6128.918	3.704	-10.637	1.00	0.00	C
ATOM53	O	SER A	6128.643	4.519	-11.517	1.00	0.00	O
ATOM54	CB	SER A	6130.735	2.024	-10.273	1.00	0.00	C
ATOM55	OG	SER A	6130.834	0.658	-9.907	1.00	0.00	O
ATOM56	H	SER A	6130.488	2.108	-12.805	1.00	0.00	H
ATOM57	HA	SER A	6128.680	1.584	-10.673	1.00	0.00	H
ATOM58	1HB	SER A	6131.558	2.268	-10.928	1.00	0.00	H
ATOM59	2HB	SER A	6130.794	2.629	-9.380	1.00	0.00	H
ATOM60	HG	SER A	6131.760	0.409	-9.847	1.00	0.00	H
ATOM61	N	GLY A	7128.805	3.974	-9.340	1.00	0.00	N
ATOM62	CA	GLY A	7128.341	5.274	-8.891	1.00	0.00	C
ATOM63	C	GLY A	7129.005	5.713	-7.601	1.00	0.00	C
ATOM64	O	GLY A	7129.918	5.051	-7.108	1.00	0.00	O
ATOM65	H	GLY A	7129.039	3.285	-8.683	1.00	0.00	H
ATOM66	1HA	GLY A	7128.552	6.003	-9.658	1.00	0.00	H
ATOM67	2HA	GLY A	7127.273	5.228	-8.736	1.00	0.00	H
ATOM68	N	LEU A	8128.544	6.833	-7.053	1.00	0.00	N
ATOM69	CA	LEU A	8129.099	7.360	-5.811	1.00	0.00	C

ATOM70	C	LEU A	8127.992	7.667	-4.808	1.00	0.00	C
ATOM71	O	LEU A	8126.829	7.822	-5.180	1.00	0.00	O
ATOM72	CB	LEU A	8129.916	8.624	-6.089	1.00	0.00	C
ATOM73	CG	LEU A	8131.353	8.378	-6.550	1.00	0.00	C
ATOM74	CD1	LEU A	8131.955	9.650	-7.124	1.00	0.00	C
ATOM75	CD2	LEU A	8132.199	7.859	-5.397	1.00	0.00	C
ATOM76	H	LEU A	8127.814	7.315	-7.493	1.00	0.00	H
ATOM77	HA	LEU A	8129.750	6.607	-5.392	1.00	0.00	H
ATOM78	1HB	LEU A	8129.407	9.194	-6.854	1.00	0.00	H
ATOM79	2HB	LEU A	8129.947	9.213	-5.186	1.00	0.00	H
ATOM80	HG	LEU A	8131.352	7.628	-7.328	1.00	0.00	H
ATOM81	1HD1	LEU A	8131.820	10.461	-6.423	1.00	0.00	H
ATOM82	2HD1	LEU A	8131.462	9.894	-8.054	1.00	0.00	H
ATOM83	3HD1	LEU A	8133.010	9.501	-7.304	1.00	0.00	H
ATOM84	1HD2	LEU A	8132.928	7.157	-5.772	1.00	0.00	H
ATOM85	2HD2	LEU A	8131.562	7.367	-4.676	1.00	0.00	H
ATOM86	3HD2	LEU A	8132.706	8.686	-4.922	1.00	0.00	H
ATOM87	N	ALAA	9128.361	7.754	-3.534	1.00	0.00	N
ATOM88	CA	ALAA	9127.398	8.042	-2.478	1.00	0.00	C
ATOM89	C	ALAA	9128.053	8.796	-1.326	1.00	0.00	C
ATOM90	O	ALAA	9127.633	8.677	-0.176	1.00	0.00	O
ATOM91	CB	ALAA	9126.766	6.754	-1.975	1.00	0.00	C
ATOM92	H	ALAA	9129.303	7.619	-3.299	1.00	0.00	H
ATOM93	HA	ALAA	9126.617	8.658	-2.899	1.00	0.00	H
ATOM94	1HB	ALAA	9127.284	6.421	-1.087	1.00	0.00	H
ATOM95	2HB	ALAA	9126.839	5.994	-2.740	1.00	0.00	H
ATOM96	3HB	ALAA	9125.726	6.929	-1.742	1.00	0.00	H

ATOM97	N	MET A	10129.085	9.573	-1.643	1.00	0.00	N
ATOM98	CA	MET A	10129.796	10.347	-0.633	1.00	0.00	C
ATOM99	C	MET A	10130.666	11.422	-1.282	1.00	0.00	C
ATOM	100	O	MET A	10131.871	11.241	-1.449	1.00	0.00 O
ATOM	101	CB	MET A	10130.664	9.427	0.230	1.00	0.00 C
ATOM	102	CG	MET A	10130.012	9.038	1.548	1.00	0.00 C
ATOM	103	SD	MET A	10130.760	9.864	2.965	1.00	0.00 S
ATOM	104	CE	MET A	10132.424	9.208	2.903	1.00	0.00 C
ATOM	105	H	MET A	10129.373	9.628	-2.578	1.00	0.00 H
ATOM	106	HA	MET A	10129.061	10.827	-0.005	1.00	0.00 H
ATOM	107	1HB	MET A	10130.870	8.525	-0.325	1.00	0.00 H
ATOM	108	2HB	MET A	10131.596	9.928	0.446	1.00	0.00 H
ATOM	109	1HG	MET A	10128.966	9.301	1.508	1.00	0.00 H
ATOM	110	2HG	MET A	10130.109	7.970	1.680	1.00	0.00 H
ATOM	111	1HE	MET A	10132.732	9.103	1.872	1.00	0.00 H
ATOM	112	2HE	MET A	10132.449	8.242	3.384	1.00	0.00 H
ATOM	113	3HE	MET A	10133.098	9.881	3.412	1.00	0.00 H
ATOM	114	N	PRO A	11130.060	12.563	-1.655	1.00	0.00 N
ATOM	115	CA	PRO A	11130.787	13.668	-2.285	1.00	0.00 C
ATOM	116	C	PRO A	11131.997	14.110	-1.464	1.00	0.00 C
ATOM	117	O	PRO A	11133.081	14.317	-2.011	1.00	0.00 O
ATOM	118	CB	PRO A	11129.751	14.793	-2.359	1.00	0.00 C
ATOM	119	CG	PRO A	11128.428	14.110	-2.301	1.00	0.00 C
ATOM	120	CD	PRO A	11128.627	12.861	-1.489	1.00	0.00 C
ATOM	121	HA	PRO A	11131.110	13.409	-3.282	1.00	0.00 H
ATOM	122	1HB	PRO A	11129.886	15.465	-1.524	1.00	0.00 H
ATOM	123	2HB	PRO A	11129.873	15.335	-3.285	1.00	0.00 H

ATOM	124	1HG	PRO A	11127.708	14.752	-1.821	1.00	0.00	H
ATOM	125	2HG	PRO A	11128.101	13.859	-3.300	1.00	0.00	H
ATOM	126	1HD	PRO A	11128.392	13.045	-0.451	1.00	0.00	H
ATOM	127	2HD	PRO A	11128.020	12.057	-1.877	1.00	0.00	H
ATOM	128	N	PRO A	12131.836	14.258	-0.134	1.00	0.00	N
ATOM	129	CA	PRO A	12132.932	14.672	0.747	1.00	0.00	C
ATOM	130	C	PRO A	12134.071	13.659	0.754	1.00	0.00	C
ATOM	131	O	PRO A	12135.204	13.984	1.107	1.00	0.00	O
ATOM	132	CB	PRO A	12132.283	14.754	2.136	1.00	0.00	C
ATOM	133	CG	PRO A	12130.815	14.809	1.879	1.00	0.00	C
ATOM	134	CD	PRO A	12130.591	14.030	0.616	1.00	0.00	C
ATOM	135	HA	PRO A	12133.318	15.642	0.469	1.00	0.00	H
ATOM	136	1HB	PRO A	12132.549	13.879	2.711	1.00	0.00	H
ATOM	137	2HB	PRO A	12132.626	15.641	2.644	1.00	0.00	H
ATOM	138	1HG	PRO A	12130.281	14.354	2.700	1.00	0.00	H
ATOM	139	2HG	PRO A	12130.502	15.834	1.748	1.00	0.00	H
ATOM	140	1HD	PRO A	12130.458	12.981	0.837	1.00	0.00	H
ATOM	141	2HD	PRO A	12129.738	14.416	0.081	1.00	0.00	H
ATOM	142	N	GLY A	13133.759	12.427	0.361	1.00	0.00	N
ATOM	143	CA	GLY A	13134.766	11.384	0.327	1.00	0.00	C
ATOM	144	C	GLY A	13135.229	11.068	-1.082	1.00	0.00	C
ATOM	145	O	GLY A	13134.684	11.593	-2.053	1.00	0.00	O
ATOM	146	H	GLY A	13132.837	12.226	0.090	1.00	0.00	H
ATOM	147	1HA	GLY A	13135.617	11.700	0.911	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.355	10.487	0.768	1.00	0.00	H
ATOM	149	N	ASN A	14136.236	10.209	-1.194	1.00	0.00	N
ATOM	150	CA	ASN A	14136.770	9.824	-2.495	1.00	0.00	C

ATOM	151	C	ASN A	14135.847	8.829	-3.190	1.00	0.00 C
ATOM	152	O	ASN A	14135.407	9.058	-4.316	1.00	0.00 O
ATOM	153	CB	ASN A	14138.167	9.219	-2.337	1.00	0.00 C
ATOM	154	CG	ASN A	14139.066	10.061	-1.454	1.00	0.00 C
ATOM	155	OD1	ASN A	14139.732	10.984	-1.925	1.00	0.00 O
ATOM	156	ND2	ASN A	14139.090	9.749	-0.164	1.00	0.00 N
ATOM	157	H	ASN A	14136.629	9.823	-0.383	1.00	0.00 H
ATOM	158	HA	ASN A	14136.841	10.715	-3.100	1.00	0.00 H
ATOM	159	1HB	ASN A	14138.079	8.237	-1.896	1.00	0.00 H
ATOM	160	2HB	ASN A	14138.627	9.133	-3.310	1.00	0.00 H
ATOM	161	1HD2	ASN A	14138.535	9.002	0.142	1.00	0.00 H
ATOM	162	2HD2	ASN A	14139.663	10.277	0.430	1.00	0.00 H
ATOM	163	N	SER A	15135.560	7.722	-2.512	1.00	0.00 N
ATOM	164	CA	SER A	15134.689	6.693	-3.065	1.00	0.00 C
ATOM	165	C	SER A	15133.686	6.210	-2.022	1.00	0.00 C
ATOM	166	O	SER A	15132.492	6.099	-2.300	1.00	0.00 O
ATOM	167	CB	SER A	15135.520	5.512	-3.574	1.00	0.00 C
ATOM	168	OG	SER A	15134.733	4.638	-4.365	1.00	0.00 O
ATOM	169	H	SER A	15135.942	7.596	-1.618	1.00	0.00 H
ATOM	170	HA	SER A	15134.149	7.125	-3.893	1.00	0.00 H
ATOM	171	1HB	SER A	15136.337	5.884	-4.175	1.00	0.00 H
ATOM	172	2HB	SER A	15135.913	4.962	-2.732	1.00	0.00 H
ATOM	173	HG	SER A	15133.932	4.410	-3.889	1.00	0.00 H
ATOM	174	N	HIS A	16134.179	5.924	-0.822	1.00	0.00 N
ATOM	175	CA	HIS A	16133.325	5.452	0.263	1.00	0.00 C
ATOM	176	C	HIS A	16133.925	5.807	1.620	1.00	0.00 C
ATOM	177	O	HIS A	16133.233	6.314	2.502	1.00	0.00 O

ATOM	178	CB	HIS A	16133.124	3.940	0.160	1.00	0.00 C
ATOM	179	CG	HIS A	16131.734	3.497	0.497	1.00	0.00 C
ATOM	180	ND1	HIS A	16131.293	3.324	1.793	1.00	0.00 N
ATOM	181	CD2	HIS A	16130.683	3.192	-0.300	1.00	0.00 C
ATOM	182	CE1	HIS A	16130.032	2.931	1.777	1.00	0.00 C
ATOM	183	NE2	HIS A	16129.638	2.843	0.520	1.00	0.00 N
ATOM	184	H	HIS A	16135.140	6.032	-0.662	1.00	0.00 H
ATOM	185	HA	HIS A	16132.367	5.942	0.166	1.00	0.00 H
ATOM	186	1HB	HIS A	16133.337	3.623	-0.849	1.00	0.00 H
ATOM	187	2HB	HIS A	16133.806	3.445	0.838	1.00	0.00 H
ATOM	188	HD1	HIS A	16131.825	3.467	2.603	1.00	0.00 H
ATOM	189	HD2	HIS A	16130.670	3.217	-1.381	1.00	0.00 H
ATOM	190	HE1	HIS A	16129.425	2.718	2.646	1.00	0.00 H
ATOM	191	HE2	HIS A	16128.774	2.491	0.222	1.00	0.00 H
ATOM	192	N	GLY A	17135.217	5.537	1.779	1.00	0.00 N
ATOM	193	CA	GLY A	17135.887	5.834	3.032	1.00	0.00 C
ATOM	194	C	GLY A	17137.270	5.217	3.109	1.00	0.00 C
ATOM	195	O	GLY A	17137.577	4.481	4.045	1.00	0.00 O
ATOM	196	H	GLY A	17135.718	5.132	1.041	1.00	0.00 H
ATOM	197	1HA	GLY A	17135.976	6.905	3.134	1.00	0.00 H
ATOM	198	2HA	GLY A	17135.289	5.453	3.846	1.00	0.00 H
ATOM	199	N	LEU A	18138.106	5.519	2.121	1.00	0.00 N
ATOM	200	CA	LEU A	18139.464	4.989	2.080	1.00	0.00 C
ATOM	201	C	LEU A	18140.482	6.077	2.411	1.00	0.00 C
ATOM	202	O	LEU A	18140.788	6.929	1.578	1.00	0.00 O
ATOM	203	CB	LEU A	18139.763	4.398	0.701	1.00	0.00 C
ATOM	204	CG	LEU A	18139.023	3.098	0.381	1.00	0.00 C

ATOM	205	CD1	LEU A	18138.916	2.902	-1.124	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.726	1.914	1.027	1.00	0.00	C
ATOM	207	H	LEU A	18137.802	6.112	1.403	1.00	0.00	H
ATOM	208	HA	LEU A	18139.537	4.207	2.821	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.500	5.133	-0.046	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.824	4.207	0.636	1.00	0.00	H
ATOM	211	HG	LEU A	18138.021	3.154	0.781	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.964	1.848	-1.354	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.732	3.415	-1.612	1.00	0.00	H
ATOM	214	3HD1	LEU A	18137.978	3.305	-1.473	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.773	2.062	2.095	1.00	0.00	H
ATOM	216	2HD2	LEU A	18140.726	1.828	0.630	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.175	1.009	0.813	1.00	0.00	H
ATOM	218	N	GLU A	19141.003	6.039	3.633	1.00	0.00	N
ATOM	219	CA	GLU A	19141.987	7.021	4.076	1.00	0.00	C
ATOM	220	C	GLU A	19143.003	6.385	5.019	1.00	0.00	C
ATOM	221	O	GLU A	19142.915	5.198	5.333	1.00	0.00	O
ATOM	222	CB	GLU A	19141.291	8.193	4.771	1.00	0.00	C
ATOM	223	CG	GLU A	19140.354	7.767	5.889	1.00	0.00	C
ATOM	224	CD	GLU A	19139.186	8.717	6.064	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.168	8.543	5.361	1.00	0.00	O
ATOM	226	OE2	GLU A	19139.287	9.634	6.905	1.00	0.00	O
ATOM	227	H	GLU A	19140.719	5.335	4.253	1.00	0.00	H
ATOM	228	HA	GLU A	19142.504	7.388	3.202	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.043	8.845	5.190	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.717	8.741	4.040	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.968	6.784	5.664	1.00	0.00	H

ATOM	232	2HG	GLU A	19140.911	7.730	6.814	1.00	0.00	H
ATOM	233	N	VAL A	20143.968	7.183	5.466	1.00	0.00	N
ATOM	234	CA	VAL A	20145.001	6.699	6.374	1.00	0.00	C
ATOM	235	C	VAL A	20144.390	6.120	7.646	1.00	0.00	C
ATOM	236	O	VAL A	20143.480	6.706	8.230	1.00	0.00	O
ATOM	237	CB	VAL A	20145.985	7.822	6.754	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.147	7.267	7.563	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.487	8.537	5.508	1.00	0.00	C
ATOM	240	H	VAL A	20143.984	8.120	5.180	1.00	0.00	H
ATOM	241	HA	VAL A	20145.554	5.922	5.865	1.00	0.00	H
ATOM	242	HB	VAL A	20145.460	8.540	7.368	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.999	7.923	7.468	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.406	6.286	7.194	1.00	0.00	H
ATOM	245	3HG1	VAL A	20146.861	7.195	8.602	1.00	0.00	H
ATOM	246	1HG2	VAL A	20146.440	7.864	4.665	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.508	8.853	5.661	1.00	0.00	H
ATOM	248	3HG2	VAL A	20145.868	9.401	5.315	1.00	0.00	H
ATOM	249	N	GLY A	21144.897	4.967	8.068	1.00	0.00	N
ATOM	250	CA	GLY A	21144.389	4.329	9.267	1.00	0.00	C
ATOM	251	C	GLY A	21143.329	3.289	8.967	1.00	0.00	C
ATOM	252	O	GLY A	21143.299	2.225	9.586	1.00	0.00	O
ATOM	253	H	GLY A	21145.624	4.546	7.561	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.208	3.852	9.784	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.963	5.084	9.912	1.00	0.00	H
ATOM	256	N	SER A	22142.455	3.595	8.013	1.00	0.00	N
ATOM	257	CA	SER A	22141.387	2.679	7.631	1.00	0.00	C
ATOM	258	C	SER A	22141.933	1.524	6.796	1.00	0.00	C

ATOM	259	O	SER A	22142.942	1.668	6.106	1.00	0.00	O
ATOM	260	CB	SER A	22140.304	3.423	6.847	1.00	0.00	C
ATOM	261	OG	SER A	22140.042	4.693	7.418	1.00	0.00	O
ATOM	262	H	SER A	22142.530	4.459	7.555	1.00	0.00	H
ATOM	263	HA	SER A	22140.953	2.280	8.535	1.00	0.00	H
ATOM	264	1HB	SER A	22140.632	3.561	5.828	1.00	0.00	H
ATOM	265	2HB	SER A	22139.393	2.842	6.856	1.00	0.00	H
ATOM	266	HG	SER A	22139.251	5.065	7.021	1.00	0.00	H
ATOM	267	N	LEU A	23141.259	0.381	6.865	1.00	0.00	N
ATOM	268	CA	LEU A	23141.677	-0.798	6.116	1.00	0.00	C
ATOM	269	C	LEU A	23141.131	-0.761	4.693	1.00	0.00	C
ATOM	270	O	LEU A	23140.073	-0.186	4.438	1.00	0.00	O
ATOM	271	CB	LEU A	23141.206	-2.070	6.824	1.00	0.00	C
ATOM	272	CG	LEU A	23141.688	-2.224	8.267	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.698	-3.049	9.075	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.069	-2.862	8.302	1.00	0.00	C
ATOM	275	H	LEU A	23140.463	0.329	7.434	1.00	0.00	H
ATOM	276	HA	LEU A	23142.756	-0.799	6.074	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.126	-2.077	6.823	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.555	-2.921	6.259	1.00	0.00	H
ATOM	279	HG	LEU A	23141.758	-1.248	8.722	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.860	-4.098	8.880	1.00	0.00	H
ATOM	281	2HD1	LEU A	23139.691	-2.781	8.791	1.00	0.00	H
ATOM	282	3HD1	LEU A	23140.840	-2.852	10.127	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.649	-2.423	9.100	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.568	-2.691	7.359	1.00	0.00	H
ATOM	285	3HD2	LEU A	23142.970	-3.924	8.469	1.00	0.00	H

ATOM	286	N	ALA A	24141.859	-1.379	3.768	1.00	0.00	N
ATOM	287	CA	ALA A	24141.447	-1.417	2.370	1.00	0.00	C
ATOM	288	C	ALA A	24141.974	-2.668	1.676	1.00	0.00	C
ATOM	289	O	ALA A	24142.870	-3.341	2.186	1.00	0.00	O
ATOM	290	CB	ALA A	24141.925	-0.168	1.646	1.00	0.00	C
ATOM	291	H	ALA A	24142.693	-1.820	4.032	1.00	0.00	H
ATOM	292	HA	ALA A	24140.367	-1.430	2.341	1.00	0.00	H
ATOM	293	1HB	ALA A	24141.383	-0.061	0.718	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.981	-0.255	1.439	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.749	0.698	2.267	1.00	0.00	H
ATOM	296	N	GLU A	25141.413	-2.975	0.511	1.00	0.00	N
ATOM	297	CA	GLU A	25141.827	-4.145	-0.252	1.00	0.00	C
ATOM	298	C	GLU A	25142.061	-3.785	-1.716	1.00	0.00	C
ATOM	299	O	GLU A	25141.346	-2.961	-2.285	1.00	0.00	O
ATOM	300	CB	GLU A	25140.773	-5.248	-0.147	1.00	0.00	C
ATOM	301	CG	GLU A	25141.270	-6.611	-0.600	1.00	0.00	C
ATOM	302	CD	GLU A	25140.237	-7.371	-1.407	1.00	0.00	C
ATOM	303	OE1	GLU A	25139.590	-8.277	-0.841	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.072	-7.060	-2.605	1.00	0.00	O
ATOM	305	H	GLU A	25140.703	-2.399	0.156	1.00	0.00	H
ATOM	306	HA	GLU A	25142.754	-4.505	0.169	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.453	-5.328	0.880	1.00	0.00	H
ATOM	308	2HB	GLU A	25139.924	-4.978	-0.760	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.151	-6.474	-1.210	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.525	-7.194	0.273	1.00	0.00	H
ATOM	311	N	VAL A	26143.066	-4.410	-2.321	1.00	0.00	N
ATOM	312	CA	VAL A	26143.394	-4.156	-3.718	1.00	0.00	C

ATOM	313	C	VAL A	26142.998	-5.336	-4.599	1.00	0.00	C
ATOM	314	O	VAL A	26143.026	-6.486	-4.161	1.00	0.00	O
ATOM	315	CB	VAL A	26144.898	-3.876	-3.901	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.188	-3.419	-5.322	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.374	-2.841	-2.892	1.00	0.00	C
ATOM	318	H	VAL A	26143.601	-5.057	-1.815	1.00	0.00	H
ATOM	319	HA	VAL A	26142.845	-3.282	-4.036	1.00	0.00	H
ATOM	320	HB	VAL A	26145.438	-4.794	-3.724	1.00	0.00	H
ATOM	321	1HG1	VAL A	26144.303	-2.967	-5.743	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.477	-4.270	-5.921	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.990	-2.697	-5.311	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.426	-3.291	-1.912	1.00	0.00	H
ATOM	325	2HG2	VAL A	26144.682	-2.013	-2.872	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.354	-2.485	-3.177	1.00	0.00	H
ATOM	327	N	LYS A	27142.631	-5.043	-5.842	1.00	0.00	N
ATOM	328	CA	LYS A	27142.230	-6.080	-6.785	1.00	0.00	C
ATOM	329	C	LYS A	27143.429	-6.587	-7.579	1.00	0.00	C
ATOM	330	O	LYS A	27143.642	-6.187	-8.723	1.00	0.00	O
ATOM	331	CB	LYS A	27141.161	-5.544	-7.739	1.00	0.00	C
ATOM	332	CG	LYS A	27139.740	-5.743	-7.235	1.00	0.00	C
ATOM	333	CD	LYS A	27139.084	-6.954	-7.879	1.00	0.00	C
ATOM	334	CE	LYS A	27139.179	-8.181	-6.985	1.00	0.00	C
ATOM	335	NZ	LYS A	27139.457	-9.418	-7.765	1.00	0.00	N
ATOM	336	H	LYS A	27142.630	-4.106	-6.132	1.00	0.00	H
ATOM	337	HA	LYS A	27141.815	-6.900	-6.219	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.323	-4.487	-7.886	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.257	-6.049	-8.689	1.00	0.00	H

ATOM	340	1HG	LYS A	27139.765	-5.886	-6.166	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.159	-4.863	-7.470	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.044	-6.734	-8.061	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.579	-7.164	-8.816	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.976	-8.030	-6.272	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.244	-8.299	-6.459	1.00	0.00	H
ATOM	346	1HZ	LYS A	27138.945	-10.223	-7.353	1.00	0.00	H
ATOM	347	2HZ	LYS A	27140.475	-9.627	-7.756	1.00	0.00	H
ATOM	348	3HZ	LYS A	27139.150	-9.294	-8.752	1.00	0.00	H
ATOM	349	N	GLU A	28144.209	-7.469	-6.964	1.00	0.00	N
ATOM	350	CA	GLU A	28145.388	-8.032	-7.613	1.00	0.00	C
ATOM	351	C	GLU A	28145.339	-9.556	-7.602	1.00	0.00	C
ATOM	352	O	GLU A	28144.374	-10.153	-7.126	1.00	0.00	O
ATOM	353	CB	GLU A	28146.661	-7.544	-6.918	1.00	0.00	C
ATOM	354	CG	GLU A	28147.726	-7.045	-7.879	1.00	0.00	C
ATOM	355	CD	GLU A	28148.621	-5.987	-7.262	1.00	0.00	C
ATOM	356	OE1	GLU A	28148.123	-4.875	-6.987	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.819	-6.271	-7.052	1.00	0.00	O
ATOM	358	H	GLU A	28143.987	-7.749	-6.051	1.00	0.00	H
ATOM	359	HA	GLU A	28145.396	-7.691	-8.638	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.405	-6.736	-6.249	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.079	-8.356	-6.341	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.340	-7.880	-8.183	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.241	-6.623	-8.748	1.00	0.00	H
ATOM	364	N	ASN A	29146.388	-10.180	-8.131	1.00	0.00	N
ATOM	365	CA	ASN A	29146.464	-11.635	-8.182	1.00	0.00	C
ATOM	366	C	ASN A	29146.473	-12.229	-6.774	1.00	0.00	C

ATOM	367	O	ASN A	29145.597	-13.017	-6.419	1.00	0.00	O
ATOM	368	CB	ASN A	29147.717	-12.075	-8.943	1.00	0.00	C
ATOM	369	CG	ASN A	29147.423	-12.410	-10.393	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.664	-13.530	-10.844	1.00	0.00	O
ATOM	371	ND2	ASN A	29146.902	-11.437	-11.130	1.00	0.00	N
ATOM	372	H	ASN A	29147.126	-9.650	-8.495	1.00	0.00	H
ATOM	373	HA	ASN A	29145.590	-11.995	-8.705	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.444	-11.278	-8.918	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.132	-12.951	-8.467	1.00	0.00	H
ATOM	376	1HD2	ASN A	29146.737	-10.570	-10.704	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.701	-11.625	-12.071	1.00	0.00	H
ATOM	378	N	PRO A	30147.468	-11.853	-5.951	1.00	0.00	N
ATOM	379	CA	PRO A	30147.587	-12.350	-4.578	1.00	0.00	C
ATOM	380	C	PRO A	30146.604	-11.669	-3.628	1.00	0.00	C
ATOM	381	O	PRO A	30146.755	-10.489	-3.310	1.00	0.00	O
ATOM	382	CB	PRO A	30149.025	-11.990	-4.206	1.00	0.00	C
ATOM	383	CG	PRO A	30149.325	-10.773	-5.008	1.00	0.00	C
ATOM	384	CD	PRO A	30148.555	-10.915	-6.295	1.00	0.00	C
ATOM	385	HA	PRO A	30147.456	-13.420	-4.531	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.086	-11.793	-3.146	1.00	0.00	H
ATOM	387	2HB	PRO A	30149.682	-12.806	-4.465	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.001	-9.892	-4.474	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.385	-10.720	-5.212	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.156	-9.960	-6.602	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.186	-11.325	-7.069	1.00	0.00	H
ATOM	392	N	PRO A	31145.579	-12.403	-3.156	1.00	0.00	N
ATOM	393	CA	PRO A	31144.575	-11.854	-2.239	1.00	0.00	C

ATOM	394	C	PRO A	31145.149	-11.573	-0.854	1.00	0.00	C
ATOM	395	O	PRO A	31145.083	-12.418	0.038	1.00	0.00	O
ATOM	396	CB	PRO A	31143.517	-12.957	-2.165	1.00	0.00	C
ATOM	397	CG	PRO A	31144.253	-14.209	-2.491	1.00	0.00	C
ATOM	398	CD	PRO A	31145.317	-13.819	-3.478	1.00	0.00	C
ATOM	399	HA	PRO A	31144.132	-10.951	-2.633	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.097	-12.991	-1.170	1.00	0.00	H
ATOM	401	2HB	PRO A	31142.737	-12.761	-2.885	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.703	-14.614	-1.596	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.580	-14.929	-2.931	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.205	-14.418	-3.334	1.00	0.00	H
ATOM	405	2HD	PRO A	31144.950	-13.923	-4.488	1.00	0.00	H
ATOM	406	N	PHE A	32145.712	-10.382	-0.683	1.00	0.00	N
ATOM	407	CA	PHE A	32146.298	-9.990	0.593	1.00	0.00	C
ATOM	408	C	PHE A	32145.431	-8.947	1.292	1.00	0.00	C
ATOM	409	O	PHE A	32144.494	-8.408	0.703	1.00	0.00	O
ATOM	410	CB	PHE A	32147.709	-9.437	0.382	1.00	0.00	C
ATOM	411	CG	PHE A	32147.801	-8.437	-0.735	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.541	-8.716	-1.873	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.149	-7.218	-0.646	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.628	-7.799	-2.902	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.233	-6.295	-1.672	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.973	-6.586	-2.801	1.00	0.00	C
ATOM	417	H	PHE A	32145.734	-9.751	-1.433	1.00	0.00	H
ATOM	418	HA	PHE A	32146.355	-10.870	1.216	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.038	-8.952	1.289	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.377	-10.254	0.155	1.00	0.00	H

ATOM	421	HD1 PHE A	32149.052	-9.664	-1.952	1.00	0.00	H
ATOM	422	HD2 PHE A	32146.571	-6.989	0.237	1.00	0.00	H
ATOM	423	HE1 PHE A	32149.208	-8.027	-3.784	1.00	0.00	H
ATOM	424	HE2 PHE A	32146.719	-5.348	-1.590	1.00	0.00	H
ATOM	425	HZ PHE A	32148.039	-5.867	-3.604	1.00	0.00	H
ATOM	426	N TYR A	33145.750	-8.668	2.552	1.00	0.00	N
ATOM	427	CA TYR A	33145.000	-7.690	3.332	1.00	0.00	C
ATOM	428	C TYR A	33145.940	-6.694	4.004	1.00	0.00	C
ATOM	429	O TYR A	33146.852	-7.081	4.734	1.00	0.00	O
ATOM	430	CB TYR A	33144.147	-8.395	4.388	1.00	0.00	C
ATOM	431	CG TYR A	33142.780	-8.803	3.888	1.00	0.00	C
ATOM	432	CD1 TYR A	33141.996	-7.922	3.154	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.273	-10.070	4.151	1.00	0.00	C
ATOM	434	CE1 TYR A	33140.746	-8.291	2.696	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.023	-10.447	3.696	1.00	0.00	C
ATOM	436	CZ TYR A	33140.264	-9.554	2.970	1.00	0.00	C
ATOM	437	OH TYR A	33139.019	-9.926	2.514	1.00	0.00	O
ATOM	438	H TYR A	33146.508	-9.131	2.967	1.00	0.00	H
ATOM	439	HA TYR A	33144.351	-7.155	2.655	1.00	0.00	H
ATOM	440	1HB TYR A	33144.659	-9.288	4.717	1.00	0.00	H
ATOM	441	2HB TYR A	33144.010	-7.734	5.230	1.00	0.00	H
ATOM	442	HD1 TYR A	33142.376	-6.934	2.941	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.869	-10.766	4.721	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.152	-7.592	2.126	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.646	-11.436	3.910	1.00	0.00	H
ATOM	446	HH TYR A	33139.088	-10.756	2.037	1.00	0.00	H
ATOM	447	N GLY A	34145.710	-5.410	3.751	1.00	0.00	N

ATOM	448	CA	GLY A	34146.544	-4.378	4.337	1.00	0.00	C
ATOM	449	C	GLY A	34145.757	-3.138	4.711	1.00	0.00	C
ATOM	450	O	GLY A	34144.578	-3.019	4.378	1.00	0.00	O
ATOM	451	H	GLY A	34144.969	-5.161	3.160	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.016	-4.774	5.225	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.312	-4.103	3.628	1.00	0.00	H
ATOM	454	N	VAL A	35146.409	-2.212	5.406	1.00	0.00	N
ATOM	455	CA	VAL A	35145.764	-0.974	5.827	1.00	0.00	C
ATOM	456	C	VAL A	35146.453	0.240	5.212	1.00	0.00	C
ATOM	457	O	VAL A	35147.668	0.241	5.013	1.00	0.00	O
ATOM	458	CB	VAL A	35145.763	-0.835	7.362	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.187	-0.811	7.901	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.001	0.411	7.788	1.00	0.00	C
ATOM	461	H	VAL A	35147.348	-2.365	5.642	1.00	0.00	H
ATOM	462	HA	VAL A	35144.738	-1.002	5.489	1.00	0.00	H
ATOM	463	HB	VAL A	35145.262	-1.697	7.781	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.865	-0.519	7.113	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.453	-1.795	8.258	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.252	-0.103	8.714	1.00	0.00	H
ATOM	467	1HG2	VAL A	35145.141	0.574	8.847	1.00	0.00	H
ATOM	468	2HG2	VAL A	35143.950	0.278	7.581	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.372	1.265	7.241	1.00	0.00	H
ATOM	470	N	ILE A	36145.670	1.271	4.913	1.00	0.00	N
ATOM	471	CA	ILE A	36146.207	2.491	4.322	1.00	0.00	C
ATOM	472	C	ILE A	36147.127	3.214	5.300	1.00	0.00	C
ATOM	473	O	ILE A	36146.803	3.363	6.478	1.00	0.00	O
ATOM	474	CB	ILE A	36145.080	3.449	3.888	1.00	0.00	C

ATOM	475	CG1	ILE A	36144.064	2.715	3.011	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.658	4.648	3.147	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.904	3.583	2.573	1.00	0.00	C
ATOM	478	H	ILE A	36144.709	1.210	5.097	1.00	0.00	H
ATOM	479	HA	ILE A	36146.775	2.215	3.445	1.00	0.00	H
ATOM	480	HB	ILE A	36144.584	3.811	4.775	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.560	2.354	2.122	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.663	1.876	3.560	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.620	4.385	2.734	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.776	5.472	3.835	1.00	0.00	H
ATOM	485	3HG2	ILE A	36144.989	4.936	2.351	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.384	3.954	3.443	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.225	2.999	1.970	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.276	4.415	1.994	1.00	0.00	H
ATOM	489	N	ARG A	37148.276	3.661	4.804	1.00	0.00	N
ATOM	490	CA	ARG A	37149.245	4.367	5.633	1.00	0.00	C
ATOM	491	C	ARG A	37149.477	5.782	5.116	1.00	0.00	C
ATOM	492	O	ARG A	37149.185	6.761	5.804	1.00	0.00	O
ATOM	493	CB	ARG A	37150.569	3.602	5.672	1.00	0.00	C
ATOM	494	CG	ARG A	37150.404	2.115	5.937	1.00	0.00	C
ATOM	495	CD	ARG A	37150.291	1.823	7.424	1.00	0.00	C
ATOM	496	NE	ARG A	37149.079	2.397	8.006	1.00	0.00	N
ATOM	497	CZ	ARG A	37148.908	2.602	9.309	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.866	2.280	10.170	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.775	3.129	9.754	1.00	0.00	N
ATOM	500	H	ARG A	37148.478	3.510	3.857	1.00	0.00	H
ATOM	501	HA	ARG A	37148.844	4.424	6.635	1.00	0.00	H

ATOM	502	1HB	ARG A	37151.068	3.724	4.723	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.188	4.018	6.452	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.508	1.768	5.443	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.261	1.592	5.540	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.274	0.753	7.568	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.152	2.240	7.926	1.00	0.00	H
ATOM	508	HE	ARG A	37148.356	2.643	7.392	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.722	1.882	9.843	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.730	2.437	11.149	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.050	3.372	9.109	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.646	3.282	10.734	1.00	0.00	H
ATOM	513	N	TRP A	38150.004	5.886	3.900	1.00	0.00	N
ATOM	514	CA	TRP A	38150.274	7.185	3.294	1.00	0.00	C
ATOM	515	C	TRP A	38149.557	7.323	1.954	1.00	0.00	C
ATOM	516	O	TRP A	38149.618	6.430	1.110	1.00	0.00	O
ATOM	517	CB	TRP A	38151.783	7.382	3.104	1.00	0.00	C
ATOM	518	CG	TRP A	38152.128	8.579	2.267	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.387	9.844	2.710	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.247	8.620	0.840	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.659	10.670	1.646	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.579	9.941	0.486	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.104	7.668	-0.174	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.771	10.333	-0.836	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.296	8.057	-1.486	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.625	9.380	-1.807	1.00	0.00	C
ATOM	527	H	TRP A	38150.216	5.071	3.400	1.00	0.00	H
ATOM	528	HA	TRP A	38149.904	7.945	3.964	1.00	0.00	H

ATOM	529	1HB	TRP A	38152.247	7.508	4.071	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.195	6.507	2.623	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.376	10.139	3.748	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.875	11.623	1.706	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.850	6.644	0.055	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.022	11.349	-1.102	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.189	7.335	-2.281	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.765	9.638	-2.847	1.00	0.00	H
ATOM	537	N	ILE A	39148.889	8.456	1.765	1.00	0.00	N
ATOM	538	CA	ILE A	39148.169	8.727	0.528	1.00	0.00	C
ATOM	539	C	ILE A	39148.631	10.044	-0.083	1.00	0.00	C
ATOM	540	O	ILE A	39148.297	11.119	0.414	1.00	0.00	O
ATOM	541	CB	ILE A	39146.647	8.785	0.762	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.181	7.562	1.554	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.911	8.876	-0.567	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.818	7.736	2.187	1.00	0.00	C
ATOM	545	H	ILE A	39148.887	9.132	2.475	1.00	0.00	H
ATOM	546	HA	ILE A	39148.378	7.924	-0.165	1.00	0.00	H
ATOM	547	HB	ILE A	39146.427	9.678	1.328	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.134	6.710	0.893	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.891	7.360	2.342	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.058	9.857	-0.994	1.00	0.00	H
ATOM	551	2HG2	ILE A	39144.856	8.708	-0.405	1.00	0.00	H
ATOM	552	3HG2	ILE A	39146.295	8.127	-1.243	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.725	8.742	2.569	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.706	7.032	2.998	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.052	7.559	1.446	1.00	0.00	H

ATOM	556	N	GLY A	40149.407	9.955	-1.159	1.00	0.00 N
ATOM	557	CA	GLY A	40149.906	11.152	-1.808	1.00	0.00 C
ATOM	558	C	GLY A	40150.448	10.884	-3.197	1.00	0.00 C
ATOM	559	O	GLY A	40150.274	9.794	-3.742	1.00	0.00 O
ATOM	560	H	GLY A	40149.646	9.072	-1.510	1.00	0.00 H
ATOM	561	1HA	GLY A	40149.104	11.870	-1.880	1.00	0.00 H
ATOM	562	2HA	GLY A	40150.693	11.572	-1.202	1.00	0.00 H
ATOM	563	N	GLN A	41151.109	11.884	-3.769	1.00	0.00 N
ATOM	564	CA	GLN A	41151.683	11.763	-5.103	1.00	0.00 C
ATOM	565	C	GLN A	41153.162	12.148	-5.090	1.00	0.00 C
ATOM	566	O	GLN A	41153.506	13.302	-4.830	1.00	0.00 O
ATOM	567	CB	GLN A	41150.919	12.654	-6.082	1.00	0.00 C
ATOM	568	CG	GLN A	41149.411	12.488	-6.004	1.00	0.00 C
ATOM	569	CD	GLN A	41148.672	13.804	-6.138	1.00	0.00 C
ATOM	570	OE1	GLN A	41148.635	14.607	-5.206	1.00	0.00 O
ATOM	571	NE2	GLN A	41148.077	14.033	-7.304	1.00	0.00 N
ATOM	572	H	GLN A	41151.213	12.728	-3.282	1.00	0.00 H
ATOM	573	HA	GLN A	41151.588	10.735	-5.415	1.00	0.00 H
ATOM	574	1HB	GLN A	41151.157	13.685	-5.871	1.00	0.00 H
ATOM	575	2HB	GLN A	41151.235	12.418	-7.086	1.00	0.00 H
ATOM	576	1HG	GLN A	41149.090	11.832	-6.799	1.00	0.00 H
ATOM	577	2HG	GLN A	41149.158	12.046	-5.051	1.00	0.00 H
ATOM	578	1HE2	GLN A	41148.148	13.349	-8.000	1.00	0.00 H
ATOM	579	2HE2	GLN A	41147.594	14.878	-7.418	1.00	0.00 H
ATOM	580	N	PRO A	42154.062	11.187	-5.368	1.00	0.00 N
ATOM	581	CA	PRO A	42155.507	11.441	-5.381	1.00	0.00 C
ATOM	582	C	PRO A	42155.892	12.546	-6.360	1.00	0.00 C

ATOM	583	O	PRO A	42155.139	12.859	-7.283	1.00	0.00 O
ATOM	584	CB	PRO A	42156.107	10.102	-5.822	1.00	0.00 C
ATOM	585	CG	PRO A	42155.065	9.090	-5.491	1.00	0.00 C
ATOM	586	CD	PRO A	42153.749	9.784	-5.689	1.00	0.00 C
ATOM	587	HA	PRO A	42155.871	11.695	-4.396	1.00	0.00 H
ATOM	588	1HB	PRO A	42156.311	10.129	-6.882	1.00	0.00 H
ATOM	589	2HB	PRO A	42157.022	9.918	-5.279	1.00	0.00 H
ATOM	590	1HG	PRO A	42155.148	8.245	-6.157	1.00	0.00 H
ATOM	591	2HG	PRO A	42155.173	8.774	-4.464	1.00	0.00 H
ATOM	592	1HD	PRO A	42153.419	9.686	-6.713	1.00	0.00 H
ATOM	593	2HD	PRO A	42153.007	9.389	-5.010	1.00	0.00 H
ATOM	594	N	PRO A	43157.076	13.153	-6.172	1.00	0.00 N
ATOM	595	CA	PRO A	43157.559	14.227	-7.043	1.00	0.00 C
ATOM	596	C	PRO A	43157.974	13.715	-8.417	1.00	0.00 C
ATOM	597	O	PRO A	43159.140	13.389	-8.642	1.00	0.00 O
ATOM	598	CB	PRO A	43158.771	14.776	-6.291	1.00	0.00 C
ATOM	599	CG	PRO A	43159.256	13.633	-5.468	1.00	0.00 C
ATOM	600	CD	PRO A	43158.034	12.839	-5.096	1.00	0.00 C
ATOM	601	HA	PRO A	43156.820	15.006	-7.159	1.00	0.00 H
ATOM	602	1HB	PRO A	43159.519	15.100	-7.000	1.00	0.00 H
ATOM	603	2HB	PRO A	43158.469	15.608	-5.673	1.00	0.00 H
ATOM	604	1HG	PRO A	43159.935	13.027	-6.048	1.00	0.00 H
ATOM	605	2HG	PRO A	43159.747	14.004	-4.580	1.00	0.00 H
ATOM	606	1HD	PRO A	43158.262	11.783	-5.079	1.00	0.00 H
ATOM	607	2HD	PRO A	43157.654	13.158	-4.137	1.00	0.00 H
ATOM	608	N	GLY A	44157.015	13.646	-9.332	1.00	0.00 N
ATOM	609	CA	GLY A	44157.304	13.172	-10.672	1.00	0.00 C

ATOM	610	C	GLY A	44156.071	12.647 -11.380	1.00	0.00	C
ATOM	611	O	GLY A	44155.783	13.041 -12.510	1.00	0.00	O
ATOM	612	H	GLY A	44156.104	13.919 -9.097	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.716	13.985 -11.248	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.035	12.380 -10.612	1.00	0.00	H
ATOM	615	N	LEU A	45155.344	11.756 -10.716	1.00	0.00	N
ATOM	616	CA	LEU A	45154.136	11.177 -11.291	1.00	0.00	C
ATOM	617	C	LEU A	45152.926	11.462 -10.410	1.00	0.00	C
ATOM	618	O	LEU A	45152.826	10.948 -9.296	1.00	0.00	O
ATOM	619	CB	LEU A	45154.307	9.668 -11.472	1.00	0.00	C
ATOM	620	CG	LEU A	45154.840	8.927 -10.245	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.467	7.451 -10.307	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.350	9.096 -10.132	1.00	0.00	C
ATOM	623	H	LEU A	45155.624	11.483 -9.816	1.00	0.00	H
ATOM	624	HA	LEU A	45153.977	11.632 -12.258	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.346	9.248 -11.733	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.989	9.500 -12.292	1.00	0.00	H
ATOM	627	HG	LEU A	45154.389	9.345 -9.357	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.870	7.266 -11.188	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.901	7.186 -9.427	1.00	0.00	H
ATOM	630	3HD1	LEU A	45155.365	6.852 -10.350	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.683	9.843 -10.837	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.836	8.157 -10.349	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.602	9.408 -9.130	1.00	0.00	H
ATOM	634	N	ASN A	46152.008	12.282 -10.911	1.00	0.00	N
ATOM	635	CA	ASN A	46150.810	12.622 -10.156	1.00	0.00	C
ATOM	636	C	ASN A	46149.846	11.443 -10.124	1.00	0.00	C

ATOM	637	O	ASN A	46149.218	11.110 -11.130	1.00	0.00	O
ATOM	638	CB	ASN A	46150.123	13.843 -10.773	1.00	0.00	C
ATOM	639	CG	ASN A	46149.380	14.670 -9.743	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.955	15.100 -8.743	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.095	14.900 -9.984	1.00	0.00	N
ATOM	642	H	ASN A	46152.139	12.664 -11.804	1.00	0.00	H
ATOM	643	HA	ASN A	46151.108	12.858 -9.146	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.868	14.469 -11.241	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.417	13.511 -11.519	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.703	14.526 -10.801	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.590	15.433 -9.335	1.00	0.00	H
ATOM	648	N	GLU A	47149.734	10.813 -8.961	1.00	0.00	N
ATOM	649	CA	GLU A	47148.848	9.668 -8.790	1.00	0.00	C
ATOM	650	C	GLU A	47148.661	9.345 -7.312	1.00	0.00	C
ATOM	651	O	GLU A	47149.627	9.062 -6.604	1.00	0.00	O
ATOM	652	CB	GLU A	47149.405	8.446 -9.525	1.00	0.00	C
ATOM	653	CG	GLU A	47150.918	8.314 -9.439	1.00	0.00	C
ATOM	654	CD	GLU A	47151.479	7.357 -10.472	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.460	7.702 -11.672	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.937	6.263 -10.082	1.00	0.00	O
ATOM	657	H	GLU A	47150.262	11.125 -8.197	1.00	0.00	H
ATOM	658	HA	GLU A	47147.889	9.926 -9.214	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.964	7.555 -9.103	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.131	8.513 -10.568	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.360	9.285 -9.592	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.180	7.952 -8.455	1.00	0.00	H
ATOM	663	N	VAL A	48147.416	9.382 -6.851	1.00	0.00	N

ATOM	664	CA	VAL A	48147.116	9.085	-5.457	1.00	0.00	C
ATOM	665	C	VAL A	48147.475	7.642	-5.124	1.00	0.00	C
ATOM	666	O	VAL A	48146.726	6.717	-5.438	1.00	0.00	O
ATOM	667	CB	VAL A	48145.629	9.320	-5.137	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.378	9.198	-3.642	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.180	10.679	-5.652	1.00	0.00	C
ATOM	670	H	VAL A	48146.684	9.609	-7.462	1.00	0.00	H
ATOM	671	HA	VAL A	48147.709	9.745	-4.840	1.00	0.00	H
ATOM	672	HB	VAL A	48145.048	8.560	-5.639	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.420	9.634	-3.401	1.00	0.00	H
ATOM	674	2HG1	VAL A	48146.156	9.719	-3.103	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.381	8.155	-3.360	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.227	10.934	-5.213	1.00	0.00	H
ATOM	677	2HG2	VAL A	48145.083	10.644	-6.726	1.00	0.00	H
ATOM	678	3HG2	VAL A	48145.912	11.426	-5.381	1.00	0.00	H
ATOM	679	N	LEU A	49148.629	7.455	-4.492	1.00	0.00	N
ATOM	680	CA	LEU A	49149.088	6.123	-4.122	1.00	0.00	C
ATOM	681	C	LEU A	49148.955	5.904	-2.621	1.00	0.00	C
ATOM	682	O	LEU A	49149.633	6.554	-1.825	1.00	0.00	O
ATOM	683	CB	LEU A	49150.544	5.923	-4.550	1.00	0.00	C
ATOM	684	CG	LEU A	49150.801	6.069	-6.051	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.275	6.335	-6.317	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.342	4.822	-6.793	1.00	0.00	C
ATOM	687	H	LEU A	49149.185	8.231	-4.270	1.00	0.00	H
ATOM	688	HA	LEU A	49148.470	5.404	-4.636	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.153	6.649	-4.030	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.854	4.935	-4.249	1.00	0.00	H

ATOM	691	HG	LEU A	49150.237	6.910	-6.427	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.707	6.843	-5.468	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.376	6.954	-7.197	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.788	5.398	-6.475	1.00	0.00	H
ATOM	695	1HD2	LEU A	49151.185	4.165	-6.951	1.00	0.00	H
ATOM	696	2HD2	LEU A	49149.921	5.104	-7.746	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.593	4.311	-6.206	1.00	0.00	H
ATOM	698	N	ALA A	50148.077	4.984	-2.240	1.00	0.00	N
ATOM	699	CA	ALA A	50147.856	4.682	-0.832	1.00	0.00	C
ATOM	700	C	ALA A	50148.756	3.542	-0.369	1.00	0.00	C
ATOM	701	O	ALA A	50148.624	2.408	-0.830	1.00	0.00	O
ATOM	702	CB	ALA A	50146.395	4.337	-0.589	1.00	0.00	C
ATOM	703	H	ALA A	50147.565	4.497	-2.920	1.00	0.00	H
ATOM	704	HA	ALA A	50148.093	5.570	-0.265	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.792	4.740	-1.389	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.077	4.763	0.352	1.00	0.00	H
ATOM	707	3HB	ALA A	50146.278	3.265	-0.556	1.00	0.00	H
ATOM	708	N	GLY A	51149.671	3.850	0.545	1.00	0.00	N
ATOM	709	CA	GLY A	51150.578	2.839	1.056	1.00	0.00	C
ATOM	710	C	GLY A	51149.878	1.821	1.933	1.00	0.00	C
ATOM	711	O	GLY A	51149.350	2.162	2.991	1.00	0.00	O
ATOM	712	H	GLY A	51149.730	4.770	0.876	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.034	2.326	0.221	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.352	3.324	1.631	1.00	0.00	H
ATOM	715	N	LEU A	52149.873	0.567	1.494	1.00	0.00	N
ATOM	716	CA	LEU A	52149.232	-0.504	2.247	1.00	0.00	C
ATOM	717	C	LEU A	52150.270	-1.379	2.943	1.00	0.00	C

ATOM	718	O	LEU A	52151.305	-1.710	2.364	1.00	0.00	O
ATOM	719	CB	LEU A	52148.365	-1.360	1.322	1.00	0.00	C
ATOM	720	CG	LEU A	52147.140	-0.650	0.742	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.534	-1.469	-0.388	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.108	-0.394	1.830	1.00	0.00	C
ATOM	723	H	LEU A	52150.311	0.356	0.643	1.00	0.00	H
ATOM	724	HA	LEU A	52148.601	-0.050	2.997	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.980	-1.701	0.501	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.024	-2.221	1.876	1.00	0.00	H
ATOM	727	HG	LEU A	52147.444	0.305	0.336	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.929	-0.828	-1.012	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.918	-2.253	0.027	1.00	0.00	H
ATOM	730	3HD1	LEU A	52147.324	-1.906	-0.979	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.587	0.078	2.675	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.673	-1.332	2.141	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.334	0.254	1.447	1.00	0.00	H
ATOM	734	N	GLU A	53149.985	-1.750	4.187	1.00	0.00	N
ATOM	735	CA	GLU A	53150.892	-2.587	4.962	1.00	0.00	C
ATOM	736	C	GLU A	53150.367	-4.015	5.058	1.00	0.00	C
ATOM	737	O	GLU A	53149.392	-4.282	5.759	1.00	0.00	O
ATOM	738	CB	GLU A	53151.084	-2.006	6.365	1.00	0.00	C
ATOM	739	CG	GLU A	53152.053	-2.799	7.225	1.00	0.00	C
ATOM	740	CD	GLU A	53151.694	-2.758	8.697	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.597	-2.965	9.535	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.510	-2.518	9.013	1.00	0.00	O
ATOM	743	H	GLU A	53149.143	-1.454	4.594	1.00	0.00	H
ATOM	744	HA	GLU A	53151.846	-2.599	4.455	1.00	0.00	H

ATOM	745	1HB	GLU A	53151.457	-0.996	6.276	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.127	-1.982	6.865	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.046	-3.828	6.898	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.045	-2.389	7.100	1.00	0.00	H
ATOM	749	N	LEU A	54151.021	-4.929	4.348	1.00	0.00	N
ATOM	750	CA	LEU A	54150.618	-6.331	4.353	1.00	0.00	C
ATOM	751	C	LEU A	54150.983	-6.997	5.676	1.00	0.00	C
ATOM	752	O	LEU A	54152.069	-6.783	6.212	1.00	0.00	O
ATOM	753	CB	LEU A	54151.282	-7.078	3.194	1.00	0.00	C
ATOM	754	CG	LEU A	54151.184	-6.382	1.835	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.187	-6.976	0.859	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.771	-6.491	1.283	1.00	0.00	C
ATOM	757	H	LEU A	54151.791	-4.655	3.808	1.00	0.00	H
ATOM	758	HA	LEU A	54149.547	-6.369	4.227	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.327	-7.213	3.433	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.821	-8.050	3.109	1.00	0.00	H
ATOM	761	HG	LEU A	54151.417	-5.334	1.957	1.00	0.00	H
ATOM	762	1HD1	LEU A	54151.706	-7.745	0.272	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.012	-7.406	1.407	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.555	-6.200	0.205	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.795	-6.380	0.209	1.00	0.00	H
ATOM	766	2HD2	LEU A	54149.156	-5.713	1.712	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.359	-7.457	1.536	1.00	0.00	H
ATOM	768	N	GLU A	55150.065	-7.806	6.197	1.00	0.00	N
ATOM	769	CA	GLU A	55150.290	-8.504	7.458	1.00	0.00	C
ATOM	770	C	GLU A	55151.347	-9.593	7.295	1.00	0.00	C
ATOM	771	O	GLU A	55152.090	-9.894	8.229	1.00	0.00	O

ATOM	772	CB	GLU A	55148.983	-9.117	7.965	1.00	0.00	C
ATOM	773	CG	GLU A	55147.843	-8.118	8.067	1.00	0.00	C
ATOM	774	CD	GLU A	55147.017	-8.302	9.326	1.00	0.00	C
ATOM	775	OE1	GLU A	55147.071	-9.401	9.916	1.00	0.00	O
ATOM	776	OE2	GLU A	55146.318	-7.346	9.722	1.00	0.00	O
ATOM	777	H	GLU A	55149.218	-7.937	5.723	1.00	0.00	H
ATOM	778	HA	GLU A	55150.642	-7.782	8.179	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.683	-9.906	7.291	1.00	0.00	H
ATOM	780	2HB	GLU A	55149.154	-9.538	8.945	1.00	0.00	H
ATOM	781	1HG	GLU A	55148.254	-7.120	8.069	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.198	-8.239	7.210	1.00	0.00	H
ATOM	783	N	ASP A	56151.406	-10.179	6.103	1.00	0.00	N
ATOM	784	CA	ASP A	56152.372	-11.234	5.818	1.00	0.00	C
ATOM	785	C	ASP A	56153.664	-10.651	5.256	1.00	0.00	C
ATOM	786	O	ASP A	56153.650	-9.931	4.258	1.00	0.00	O
ATOM	787	CB	ASP A	56151.781	-12.241	4.830	1.00	0.00	C
ATOM	788	CG	ASP A	56150.691	-13.091	5.453	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.769	-13.504	4.718	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.759	-13.342	6.674	1.00	0.00	O
ATOM	791	H	ASP A	56150.786	-9.895	5.399	1.00	0.00	H
ATOM	792	HA	ASP A	56152.593	-11.741	6.745	1.00	0.00	H
ATOM	793	1HB	ASP A	56151.362	-11.708	3.990	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.566	-12.895	4.480	1.00	0.00	H
ATOM	795	N	GLU A	57154.781	-10.966	5.905	1.00	0.00	N
ATOM	796	CA	GLU A	57156.083	-10.474	5.470	1.00	0.00	C
ATOM	797	C	GLU A	57156.427	-10.999	4.080	1.00	0.00	C
ATOM	798	O	GLU A	57156.851	-12.145	3.927	1.00	0.00	O

ATOM	799	CB	GLU A	57157.167 -10.886	6.467	1.00	0.00	C
ATOM	800	CG	GLU A	57157.113 -10.116	7.776	1.00	0.00	C
ATOM	801	CD	GLU A	57157.985 -10.733	8.852	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.567 -9.973	9.653	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.086 -11.977	8.892	1.00	0.00	O
ATOM	804	H	GLU A	57154.728 -11.545	6.694	1.00	0.00	H
ATOM	805	HA	GLU A	57156.033 -9.396	5.431	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.056 -11.937	6.687	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.135 -10.721	6.017	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.448 -9.105	7.599	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.092 -10.099	8.127	1.00	0.00	H
ATOM	810	N	CYS A	58156.242 -10.156	3.070	1.00	0.00	N
ATOM	811	CA	CYS A	58156.533 -10.535	1.693	1.00	0.00	C
ATOM	812	C	CYS A	58157.946 -10.114	1.300	1.00	0.00	C
ATOM	813	O	CYS A	58158.303 -8.939	1.397	1.00	0.00	O
ATOM	814	CB	CYS A	58155.516 -9.904	0.742	1.00	0.00	C
ATOM	815	SG	CYS A	58154.053 -10.924	0.443	1.00	0.00	S
ATOM	816	H	CYS A	58155.901 -9.256	3.256	1.00	0.00	H
ATOM	817	HA	CYS A	58156.460 -11.611	1.623	1.00	0.00	H
ATOM	818	1HB	CYS A	58155.181 -8.965	1.156	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.991 -9.722	-0.212	1.00	0.00	H
ATOM	820	HG	CYS A	58153.934 -10.999	-0.506	1.00	0.00	H
ATOM	821	N	ALAA	59158.744 -11.079	0.855	1.00	0.00	N
ATOM	822	CA	ALAA	59160.117 -10.807	0.448	1.00	0.00	C
ATOM	823	C	ALAA	59160.156 -9.970	-0.826	1.00	0.00	C
ATOM	824	O	ALAA	59159.813 -10.450	-1.907	1.00	0.00	O
ATOM	825	CB	ALAA	59160.876 -12.111	0.249	1.00	0.00	C

ATOM	826	H	ALA A	59158.402	-11.995	0.801	1.00	0.00	H
ATOM	827	HA	ALA A	59160.598	-10.256	1.243	1.00	0.00	H
ATOM	828	1HB	ALA A	59160.889	-12.363	-0.801	1.00	0.00	H
ATOM	829	2HB	ALA A	59160.387	-12.900	0.802	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.889	-11.995	0.605	1.00	0.00	H
ATOM	831	N	GLY A	60160.576	-8.716	-0.692	1.00	0.00	N
ATOM	832	CA	GLY A	60160.651	-7.832	-1.840	1.00	0.00	C
ATOM	833	C	GLY A	60160.053	-6.468	-1.563	1.00	0.00	C
ATOM	834	O	GLY A	60160.466	-5.470	-2.152	1.00	0.00	O
ATOM	835	H	GLY A	60160.836	-8.388	0.194	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.688	-7.708	-2.117	1.00	0.00	H
ATOM	837	2HA	GLY A	60160.122	-8.286	-2.665	1.00	0.00	H
ATOM	838	N	CYS A	61159.074	-6.425	-0.664	1.00	0.00	N
ATOM	839	CA	CYS A	61158.416	-5.173	-0.311	1.00	0.00	C
ATOM	840	C	CYS A	61159.344	-4.284	0.510	1.00	0.00	C
ATOM	841	O	CYS A	61160.455	-4.683	0.860	1.00	0.00	O
ATOM	842	CB	CYS A	61157.132	-5.451	0.472	1.00	0.00	C
ATOM	843	SG	CYS A	61156.021	-6.631	-0.329	1.00	0.00	S
ATOM	844	H	CYS A	61158.788	-7.255	-0.229	1.00	0.00	H
ATOM	845	HA	CYS A	61158.164	-4.661	-1.227	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.389	-5.850	1.442	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.591	-4.525	0.602	1.00	0.00	H
ATOM	848	HG	CYS A	61155.639	-7.189	0.354	1.00	0.00	H
ATOM	849	N	THR A	62158.881	-3.076	0.816	1.00	0.00	N
ATOM	850	CA	THR A	62159.669	-2.129	1.596	1.00	0.00	C
ATOM	851	C	THR A	62159.163	-2.056	3.034	1.00	0.00	C
ATOM	852	O	THR A	62158.177	-2.701	3.389	1.00	0.00	O

ATOM	853	CB	THR A	62159.619	-0.742	0.955	1.00	0.00	C
ATOM	854	OG1	THR A	62158.314	-0.454	0.483	1.00	0.00	O
ATOM	855	CG2	THR A	62160.573	-0.585	-0.208	1.00	0.00	C
ATOM	856	H	THR A	62157.987	-2.815	0.509	1.00	0.00	H
ATOM	857	HA	THR A	62160.691	-2.476	1.603	1.00	0.00	H
ATOM	858	HB	THR A	62159.881	-0.003	1.699	1.00	0.00	H
ATOM	859	HG1	THR A	62157.782	-0.107	1.204	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.889	-1.560	-0.549	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.435	-0.018	0.108	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.076	-0.066	-1.014	1.00	0.00	H
ATOM	863	N	ASP A	63159.847	-1.268	3.857	1.00	0.00	N
ATOM	864	CA	ASP A	63159.467	-1.109	5.255	1.00	0.00	C
ATOM	865	C	ASP A	63158.836	0.257	5.497	1.00	0.00	C
ATOM	866	O	ASP A	63158.965	0.829	6.578	1.00	0.00	O
ATOM	867	CB	ASP A	63160.689	-1.287	6.160	1.00	0.00	C
ATOM	868	CG	ASP A	63161.787	-0.290	5.849	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.647	-0.600	4.998	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.789	0.801	6.458	1.00	0.00	O
ATOM	871	H	ASP A	63160.625	-0.779	3.514	1.00	0.00	H
ATOM	872	HA	ASP A	63158.743	-1.875	5.490	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.388	-1.156	7.188	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.083	-2.284	6.029	1.00	0.00	H
ATOM	875	N	GLY A	64158.152	0.775	4.482	1.00	0.00	N
ATOM	876	CA	GLY A	64157.511	2.071	4.603	1.00	0.00	C
ATOM	877	C	GLY A	64158.215	3.146	3.799	1.00	0.00	C
ATOM	878	O	GLY A	64158.375	4.274	4.263	1.00	0.00	O
ATOM	879	H	GLY A	64158.083	0.274	3.642	1.00	0.00	H

ATOM	880	1HA	GLY A	64156.490	1.989	4.257	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.505	2.362	5.643	1.00	0.00	H
ATOM	882	N	THR A	65158.638	2.795	2.589	1.00	0.00	N
ATOM	883	CA	THR A	65159.329	3.737	1.717	1.00	0.00	C
ATOM	884	C	THR A	65158.943	3.515	0.260	1.00	0.00	C
ATOM	885	O	THR A	65159.044	2.402	-0.257	1.00	0.00	O
ATOM	886	CB	THR A	65160.844	3.600	1.884	1.00	0.00	C
ATOM	887	OG1	THR A	65161.250	2.258	1.686	1.00	0.00	O
ATOM	888	CG2	THR A	65161.338	4.034	3.246	1.00	0.00	C
ATOM	889	H	THR A	65158.481	1.880	2.275	1.00	0.00	H
ATOM	890	HA	THR A	65159.034	4.734	2.008	1.00	0.00	H
ATOM	891	HB	THR A	65161.334	4.215	1.143	1.00	0.00	H
ATOM	892	HG1	THR A	65160.827	1.907	0.900	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.554	4.569	3.761	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.197	4.679	3.129	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.619	3.164	3.822	1.00	0.00	H
ATOM	896	N	PHE A	66158.503	4.581	-0.399	1.00	0.00	N
ATOM	897	CA	PHE A	66158.101	4.504	-1.799	1.00	0.00	C
ATOM	898	C	PHE A	66159.101	5.230	-2.694	1.00	0.00	C
ATOM	899	O	PHE A	66159.198	6.457	-2.665	1.00	0.00	O
ATOM	900	CB	PHE A	66156.705	5.101	-1.985	1.00	0.00	C
ATOM	901	CG	PHE A	66156.083	4.770	-3.311	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.689	5.778	-4.177	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.893	3.452	-3.692	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.116	5.476	-5.398	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.321	3.144	-4.912	1.00	0.00	C
ATOM	906	CZ	PHE A	66154.932	4.158	-5.766	1.00	0.00	C

ATOM	907	H	PHE A	66158.446	5.442	0.066	1.00	0.00	H
ATOM	908	HA	PHE A	66158.077	3.461	-2.080	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.055	4.726	-1.211	1.00	0.00	H
ATOM	910	2HB	PHE A	66156.768	6.176	-1.906	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.833	6.809	-3.891	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.196	2.659	-3.026	1.00	0.00	H
ATOM	913	HE1	PHE A	66154.813	6.271	-6.064	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.178	2.112	-5.197	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.485	3.919	-6.720	1.00	0.00	H
ATOM	916	N	ARG A	67159.843	4.465	-3.487	1.00	0.00	N
ATOM	917	CA	ARG A	67160.835	5.035	-4.390	1.00	0.00	C
ATOM	918	C	ARG A	67161.898	5.807	-3.615	1.00	0.00	C
ATOM	919	O	ARG A	67162.370	6.853	-4.062	1.00	0.00	O
ATOM	920	CB	ARG A	67160.158	5.956	-5.408	1.00	0.00	C
ATOM	921	CG	ARG A	67158.907	5.359	-6.030	1.00	0.00	C
ATOM	922	CD	ARG A	67158.567	6.031	-7.350	1.00	0.00	C
ATOM	923	NE	ARG A	67157.502	5.330	-8.063	1.00	0.00	N
ATOM	924	CZ	ARG A	67157.666	4.161	-8.677	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.849	3.558	-8.668	1.00	0.00	N
ATOM	926	NH2	ARG A	67156.644	3.591	-9.302	1.00	0.00	N
ATOM	927	H	ARG A	67159.719	3.493	-3.465	1.00	0.00	H
ATOM	928	HA	ARG A	67161.311	4.220	-4.917	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.886	6.877	-4.916	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.859	6.174	-6.199	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.071	4.306	-6.206	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.080	5.488	-5.346	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.248	7.043	-7.152	1.00	0.00	H

ATOM	934	2HD	ARG A	67159.452	6.048	-7.969	1.00	0.00	H
ATOM	935	HE	ARG A	67156.618	5.753	-8.086	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.623	3.982	-8.199	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.966	2.679	-9.131	1.00	0.00	H
ATOM	938	1HH2	ARG A	67155.752	4.040	-9.312	1.00	0.00	H
ATOM	939	2HH2	ARG A	67156.767	2.712	-9.763	1.00	0.00	H
ATOM	940	N	GLY A	68162.269	5.284	-2.451	1.00	0.00	N
ATOM	941	CA	GLY A	68163.274	5.938	-1.632	1.00	0.00	C
ATOM	942	C	GLY A	68162.724	7.136	-0.883	1.00	0.00	C
ATOM	943	O	GLY A	68163.458	8.076	-0.580	1.00	0.00	O
ATOM	944	H	GLY A	68161.859	4.449	-2.145	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.658	5.225	-0.917	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.084	6.265	-2.268	1.00	0.00	H
ATOM	947	N	THR A	69161.430	7.102	-0.584	1.00	0.00	N
ATOM	948	CA	THR A	69160.783	8.193	0.133	1.00	0.00	C
ATOM	949	C	THR A	69159.899	7.658	1.256	1.00	0.00	C
ATOM	950	O	THR A	69158.746	7.291	1.030	1.00	0.00	O
ATOM	951	CB	THR A	69159.948	9.040	-0.828	1.00	0.00	C
ATOM	952	OG1	THR A	69160.661	9.285	-2.028	1.00	0.00	O
ATOM	953	CG2	THR A	69159.546	10.380	-0.251	1.00	0.00	C
ATOM	954	H	THR A	69160.897	6.324	-0.852	1.00	0.00	H
ATOM	955	HA	THR A	69161.556	8.811	0.565	1.00	0.00	H
ATOM	956	HB	THR A	69159.044	8.501	-1.074	1.00	0.00	H
ATOM	957	HG1	THR A	69160.425	8.623	-2.681	1.00	0.00	H
ATOM	958	1HG2	THR A	69159.640	11.143	-1.010	1.00	0.00	H
ATOM	959	2HG2	THR A	69160.189	10.619	0.583	1.00	0.00	H
ATOM	960	3HG2	THR A	69158.521	10.334	0.087	1.00	0.00	H

ATOM	961	N	ARG A	70160.448	7.616	2.465	1.00	0.00	N
ATOM	962	CA	ARG A	70159.709	7.125	3.623	1.00	0.00	C
ATOM	963	C	ARG A	70158.552	8.058	3.966	1.00	0.00	C
ATOM	964	O	ARG A	70158.739	9.263	4.126	1.00	0.00	O
ATOM	965	CB	ARG A	70160.641	6.985	4.828	1.00	0.00	C
ATOM	966	CG	ARG A	70159.945	6.478	6.082	1.00	0.00	C
ATOM	967	CD	ARG A	70159.718	7.595	7.090	1.00	0.00	C
ATOM	968	NE	ARG A	70160.355	7.311	8.373	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.654	7.482	8.610	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.457	7.933	7.653	1.00	0.00	N
ATOM	971	NH2	ARG A	70162.152	7.201	9.806	1.00	0.00	N
ATOM	972	H	ARG A	70161.371	7.922	2.583	1.00	0.00	H
ATOM	973	HA	ARG A	70159.310	6.153	3.374	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.433	6.293	4.577	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.075	7.949	5.046	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.990	6.057	5.806	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.558	5.714	6.537	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.124	8.513	6.692	1.00	0.00	H
ATOM	979	2HD	ARG A	70158.654	7.709	7.245	1.00	0.00	H
ATOM	980	HE	ARG A	70159.786	6.977	9.097	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.087	8.147	6.749	1.00	0.00	H
ATOM	982	2HH1	ARG A	70163.431	8.058	7.838	1.00	0.00	H
ATOM	983	1HH2	ARG A	70161.552	6.861	10.530	1.00	0.00	H
ATOM	984	2HH2	ARG A	70163.127	7.329	9.983	1.00	0.00	H
ATOM	985	N	TYR A	71157.355	7.490	4.077	1.00	0.00	N
ATOM	986	CA	TYR A	71156.166	8.269	4.402	1.00	0.00	C
ATOM	987	C	TYR A	71155.674	7.950	5.809	1.00	0.00	C

ATOM	988	O	TYR A	71155.102	8.804	6.486	1.00	0.00	O
ATOM	989	CB	TYR A	71155.057	7.991	3.386	1.00	0.00	C
ATOM	990	CG	TYR A	71155.312	8.601	2.026	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.252	7.827	0.874	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.614	9.951	1.894	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.486	8.380	-0.370	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.847	10.512	0.653	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.783	9.722	-0.476	1.00	0.00	C
ATOM	996	OH	TYR A	71156.016	10.276	-1.713	1.00	0.00	O
ATOM	997	H	TYR A	71157.270	6.524	3.937	1.00	0.00	H
ATOM	998	HA	TYR A	71156.431	9.314	4.354	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.956	6.924	3.256	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.126	8.393	3.761	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.020	6.775	0.960	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.664	10.567	2.780	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.435	7.761	-1.254	1.00	0.00	H
ATOM	1004	HE2	TYR A	71156.080	11.563	0.571	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.854	9.955	-2.056	1.00	0.00	H
ATOM	1006	N	PHE A	72155.900	6.714	6.244	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.480	6.283	7.572	1.00	0.00	C
ATOM	1008	C	PHE A	72156.457	5.262	8.147	1.00	0.00	C
ATOM	1009	O	PHE A	72157.463	4.930	7.521	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.074	5.683	7.515	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.907	4.646	6.442	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.991	3.296	6.745	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.664	5.020	5.130	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.838	2.340	5.760	1.00	0.00	C

ATOM	1015	CE2	PHE A	72153.510	4.068	4.140	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.597	2.726	4.456	1.00	0.00	C
ATOM	1017	H	PHE A	72156.362	6.078	5.659	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.466	7.150	8.214	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.850	5.219	8.463	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.361	6.474	7.328	1.00	0.00	H
ATOM	1021	HD1	PHE A	72154.180	2.993	7.765	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.597	6.069	4.882	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.906	1.291	6.009	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.321	4.372	3.121	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.476	1.980	3.684	1.00	0.00	H
ATOM	1026	N	THR A	73156.152	4.768	9.342	1.00	0.00	N
ATOM	1027	CA	THR A	73157.003	3.784	10.003	1.00	0.00	C
ATOM	1028	C	THR A	73156.260	2.467	10.201	1.00	0.00	C
ATOM	1029	O	THR A	73155.275	2.404	10.938	1.00	0.00	O
ATOM	1030	CB	THR A	73157.485	4.319	11.352	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.819	5.693	11.256	1.00	0.00	O
ATOM	1032	CG2	THR A	73158.697	3.588	11.888	1.00	0.00	C
ATOM	1033	H	THR A	73155.336	5.071	9.791	1.00	0.00	H
ATOM	1034	HA	THR A	73157.860	3.608	9.369	1.00	0.00	H
ATOM	1035	HB	THR A	73156.689	4.214	12.075	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.943	6.054	12.137	1.00	0.00	H
ATOM	1037	1HG2	THR A	73158.608	3.479	12.959	1.00	0.00	H
ATOM	1038	2HG2	THR A	73159.589	4.151	11.656	1.00	0.00	H
ATOM	1039	3HG2	THR A	73158.759	2.610	11.431	1.00	0.00	H
ATOM	1040	N	CYS A	74156.736	1.418	9.539	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.116	0.102	9.643	1.00	0.00	C

ATOM	1042	C	CYS A	74157.174	-0.992	9.725	1.00	0.00 C
ATOM	1043	O	CYS A	74158.373	-0.717	9.671	1.00	0.00 O
ATOM	1044	CB	CYS A	74155.198	-0.148	8.444	1.00	0.00 C
ATOM	1045	SG	CYS A	74153.512	0.467	8.665	1.00	0.00 S
ATOM	1046	H	CYS A	74157.524	1.531	8.967	1.00	0.00 H
ATOM	1047	HA	CYS A	74155.525	0.085	10.546	1.00	0.00 H
ATOM	1048	1HB	CYS A	74155.613	0.339	7.575	1.00	0.00 H
ATOM	1049	2HB	CYS A	74155.140	-1.211	8.261	1.00	0.00 H
ATOM	1050	HG	CYS A	74153.269	0.955	7.875	1.00	0.00 H
ATOM	1051	N	ALA A	75156.723	-2.236	9.856	1.00	0.00 N
ATOM	1052	CA	ALA A	75157.631	-3.373	9.946	1.00	0.00 C
ATOM	1053	C	ALA A	75158.416	-3.552	8.652	1.00	0.00 C
ATOM	1054	O	ALA A	75158.263	-2.776	7.708	1.00	0.00 O
ATOM	1055	CB	ALA A	75156.857	-4.640	10.276	1.00	0.00 C
ATOM	1056	H	ALA A	75155.756	-2.393	9.894	1.00	0.00 H
ATOM	1057	HA	ALA A	75158.325	-3.183	10.752	1.00	0.00 H
ATOM	1058	1HB	ALA A	75156.841	-4.784	11.347	1.00	0.00 H
ATOM	1059	2HB	ALA A	75157.337	-5.487	9.807	1.00	0.00 H
ATOM	1060	3HB	ALA A	75155.846	-4.551	9.910	1.00	0.00 H
ATOM	1061	N	LEU A	76159.258	-4.580	8.613	1.00	0.00 N
ATOM	1062	CA	LEU A	76160.068	-4.861	7.434	1.00	0.00 C
ATOM	1063	C	LEU A	76159.357	-5.842	6.507	1.00	0.00 C
ATOM	1064	O	LEU A	76158.756	-6.816	6.960	1.00	0.00 O
ATOM	1065	CB	LEU A	76161.428	-5.427	7.847	1.00	0.00 C
ATOM	1066	CG	LEU A	76162.316	-4.465	8.637	1.00	0.00 C
ATOM	1067	CD1	LEU A	76163.393	-5.228	9.391	1.00	0.00 C
ATOM	1068	CD2	LEU A	76162.943	-3.436	7.708	1.00	0.00 C

ATOM	1069	H	LEU A	76159.336	-5.163	9.397	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.219	-3.931	6.908	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.259	-6.307	8.451	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.959	-5.720	6.954	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.711	-3.938	9.361	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.253	-4.593	9.534	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.679	-6.102	8.824	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.009	-5.535	10.354	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.039	-3.855	6.717	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.920	-3.162	8.079	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.315	-2.558	7.666	1.00	0.00	H
ATOM	1080	N	LYS A	77159.429	-5.577	5.207	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.793	-6.436	4.214	1.00	0.00	C
ATOM	1082	C	LYS A	77157.283	-6.478	4.419	1.00	0.00	C
ATOM	1083	O	LYS A	77156.656	-7.529	4.285	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.370	-7.851	4.288	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.884	-7.899	4.152	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.333	-7.461	2.766	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.582	-6.598	2.832	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.254	-5.158	3.023	1.00	0.00	N
ATOM	1089	H	LYS A	77159.924	-4.785	4.906	1.00	0.00	H
ATOM	1090	HA	LYS A	77159.001	-6.024	3.238	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.103	-8.287	5.239	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.940	-8.445	3.496	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.323	-7.240	4.887	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.220	-8.910	4.327	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.545	-8.337	2.174	1.00	0.00	H

ATOM	1096	2HD	LYS A	77160.538	-6.894	2.304	1.00	0.00	H
ATOM	1097	1HE	LYS A	77163.191	-6.930	3.660	1.00	0.00	H
ATOM	1098	2HE	LYS A	77163.134	-6.714	1.912	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77161.291	-4.963	2.679	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77162.925	-4.564	2.495	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.307	-4.909	4.032	1.00	0.00	H
ATOM	1102	N	LYS A	78156.702	-5.327	4.745	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.265	-5.233	4.968	1.00	0.00	C
ATOM	1104	C	LYS A	78154.741	-3.857	4.567	1.00	0.00	C
ATOM	1105	O	LYS A	78153.838	-3.316	5.206	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.936	-5.509	6.436	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.439	-6.856	6.930	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.044	-7.103	8.377	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.565	-7.429	8.503	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.262	-8.159	9.765	1.00	0.00	N
ATOM	1111	H	LYS A	78157.254	-4.523	4.837	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.785	-5.980	4.355	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.384	-4.737	7.045	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.864	-5.480	6.566	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.015	-7.635	6.314	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.516	-6.878	6.851	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.619	-7.932	8.760	1.00	0.00	H
ATOM	1118	2HD	LYS A	78155.259	-6.215	8.954	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.003	-6.507	8.487	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.271	-8.042	7.663	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78153.299	-9.186	9.602	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.312	-7.907	10.105	1.00	0.00	H

ATOM	1123	3HZ	LYS A	78153.957	-7.909	10.497	1.00	0.00	H
ATOM	1124	N	ALA A	79155.313	-3.298	3.507	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.904	-1.986	3.022	1.00	0.00	C
ATOM	1126	C	ALA A	79154.827	-1.964	1.499	1.00	0.00	C
ATOM	1127	O	ALA A	79155.846	-1.846	0.817	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.864	-0.916	3.519	1.00	0.00	C
ATOM	1129	H	ALA A	79156.028	-3.779	3.040	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.924	-1.772	3.425	1.00	0.00	H
ATOM	1131	1HB	ALA A	79156.388	-1.279	4.391	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.310	-0.026	3.776	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.578	-0.684	2.741	1.00	0.00	H
ATOM	1134	N	LEU A	80153.612	-2.077	0.970	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.402	-2.069	-0.473	1.00	0.00	C
ATOM	1136	C	LEU A	80152.484	-0.924	-0.884	1.00	0.00	C
ATOM	1137	O	LEU A	80151.354	-0.818	-0.407	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.808	-3.404	-0.928	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.489	-3.494	-2.422	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.744	-3.825	-3.216	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.407	-4.534	-2.673	1.00	0.00	C
ATOM	1142	H	LEU A	80152.839	-2.167	1.566	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.362	-1.934	-0.947	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.508	-4.189	-0.682	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.894	-3.573	-0.378	1.00	0.00	H
ATOM	1146	HG	LEU A	80152.122	-2.537	-2.764	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.968	-4.877	-3.113	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80154.572	-3.243	-2.839	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.582	-3.590	-4.257	1.00	0.00	H

ATOM	1150	1HD2	LEU A	80150.440	-4.054	-2.672	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80151.440	-5.282	-1.895	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80151.575	-5.003	-3.631	1.00	0.00	H
ATOM	1153	N	PHE A	81152.977	-0.065	-1.770	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.201	1.074	-2.245	1.00	0.00	C
ATOM	1155	C	PHE A	81151.396	0.705	-3.487	1.00	0.00	C
ATOM	1156	O	PHE A	81151.813	-0.141	-4.280	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.123	2.254	-2.554	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.759	2.855	-1.332	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.219	3.986	-0.740	1.00	0.00	C
ATOM	1160	CD2	PHE A	81154.894	2.288	-0.775	1.00	0.00	C
ATOM	1161	CE1	PHE A	81153.801	4.540	0.385	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.479	2.838	0.349	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.932	3.966	0.930	1.00	0.00	C
ATOM	1164	H	PHE A	81153.885	-0.201	-2.114	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.517	1.359	-1.460	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.914	1.922	-3.209	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.554	3.027	-3.048	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.335	4.436	-1.166	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.323	1.406	-1.228	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.371	5.423	0.835	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.364	2.387	0.773	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.389	4.398	1.808	1.00	0.00	H
ATOM	1173	N	VAL A	82150.242	1.343	-3.650	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.380	1.081	-4.796	1.00	0.00	C
ATOM	1175	C	VAL A	82148.465	2.268	-5.077	1.00	0.00	C
ATOM	1176	O	VAL A	82148.334	3.174	-4.253	1.00	0.00	O

ATOM	1177	CB	VAL A	82148.517	-0.175	-4.574	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.388	-1.419	-4.519	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.691	-0.038	-3.304	1.00	0.00	C
ATOM	1180	H	VAL A	82149.965	2.006	-2.984	1.00	0.00	H
ATOM	1181	HA	VAL A	82150.010	0.912	-5.656	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.839	-0.273	-5.409	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.172	-1.344	-5.260	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.784	-2.291	-4.723	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.829	-1.508	-3.538	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82146.737	-0.526	-3.441	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82147.531	1.009	-3.090	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82148.217	-0.497	-2.480	1.00	0.00	H
ATOM	1189	N	LYS A	83147.834	2.257	-6.247	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.931	3.333	-6.639	1.00	0.00	C
ATOM	1191	C	LYS A	83145.672	3.327	-5.778	1.00	0.00	C
ATOM	1192	O	LYS A	83144.950	2.332	-5.724	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.554	3.198	-8.116	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.716	3.442	-9.064	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.351	3.082	-10.495	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.951	4.066	-11.487	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.395	3.393	-12.739	1.00	0.00	N
ATOM	1198	H	LYS A	83147.979	1.508	-6.862	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.446	4.270	-6.492	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.178	2.201	-8.289	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.776	3.912	-8.343	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.988	4.486	-9.024	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.555	2.837	-8.753	1.00	0.00	H

ATOM	1204	1HD	LYS A	83147.725	2.094	-10.715	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.276	3.093	-10.596	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.206	4.809	-11.733	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.800	4.549	-11.027	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.832	2.476	-12.515	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.090	3.984	-13.235	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83147.580	3.233	-13.366	1.00	0.00	H
ATOM	1211	N	LEU A	84145.417	4.445	-5.109	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.246	4.573	-4.250	1.00	0.00	C
ATOM	1213	C	LEU A	84142.961	4.378	-5.049	1.00	0.00	C
ATOM	1214	O	LEU A	84141.971	3.858	-4.535	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.237	5.944	-3.571	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.996	6.246	-2.730	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.069	5.526	-1.392	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.846	7.745	-2.522	1.00	0.00	C
ATOM	1219	H	LEU A	84146.031	5.204	-5.195	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.305	3.805	-3.493	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.105	6.008	-2.929	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.320	6.701	-4.335	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.120	5.890	-3.253	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.969	5.817	-0.874	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.079	4.458	-1.559	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84142.208	5.788	-0.795	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.594	8.088	-1.824	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84141.862	7.959	-2.130	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.974	8.254	-3.466	1.00	0.00	H
ATOM	1230	N	LYS A	85142.985	4.799	-6.310	1.00	0.00	N

ATOM	1231	CA	LYS A	85141.821	4.669	-7.179	1.00	0.00 C
ATOM	1232	C	LYS A	85141.476	3.201	-7.415	1.00	0.00 C
ATOM	1233	O	LYS A	85140.323	2.860	-7.676	1.00	0.00 O
ATOM	1234	CB	LYS A	85142.078	5.366	-8.517	1.00	0.00 C
ATOM	1235	CG	LYS A	85143.400	4.979	-9.161	1.00	0.00 C
ATOM	1236	CD	LYS A	85144.399	6.124	-9.118	1.00	0.00 C
ATOM	1237	CE	LYS A	85144.251	7.037	-10.325	1.00	0.00 C
ATOM	1238	NZ	LYS A	85144.698	8.426	-10.028	1.00	0.00 N
ATOM	1239	H	LYS A	85143.802	5.205	-6.663	1.00	0.00 H
ATOM	1240	HA	LYS A	85140.987	5.149	-6.689	1.00	0.00 H
ATOM	1241	1HB	LYS A	85141.281	5.111	-9.201	1.00	0.00 H
ATOM	1242	2HB	LYS A	85142.077	6.434	-8.360	1.00	0.00 H
ATOM	1243	1HG	LYS A	85143.814	4.134	-8.631	1.00	0.00 H
ATOM	1244	2HG	LYS A	85143.222	4.706	-10.191	1.00	0.00 H
ATOM	1245	1HD	LYS A	85144.235	6.700	-8.221	1.00	0.00 H
ATOM	1246	2HD	LYS A	85145.399	5.715	-9.109	1.00	0.00 H
ATOM	1247	1HE	LYS A	85144.847	6.643	-11.134	1.00	0.00 H
ATOM	1248	2HE	LYS A	85143.212	7.057	-10.619	1.00	0.00 H
ATOM	1249	1HZ	LYS A	85144.700	8.995	-10.899	1.00	0.00 H
ATOM	1250	2HZ	LYS A	85145.659	8.416	-9.632	1.00	0.00 H
ATOM	1251	3HZ	LYS A	85144.056	8.868	-9.338	1.00	0.00 H
ATOM	1252	N	SER A	86142.483	2.338	-7.322	1.00	0.00 N
ATOM	1253	CA	SER A	86142.283	0.908	-7.525	1.00	0.00 C
ATOM	1254	C	SER A	86142.180	0.177	-6.191	1.00	0.00 C
ATOM	1255	O	SER A	86142.582	-0.981	-6.073	1.00	0.00 O
ATOM	1256	CB	SER A	86143.430	0.324	-8.352	1.00	0.00 C
ATOM	1257	OG	SER A	86143.578	1.016	-9.581	1.00	0.00 O

ATOM	1258	H	SER A	86143.380	2.669	-7.111	1.00	0.00	H
ATOM	1259	HA	SER A	86141.358	0.777	-8.067	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.351	0.407	-7.794	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.228	-0.716	-8.561	1.00	0.00	H
ATOM	1262	HG	SER A	86142.715	1.148	-9.979	1.00	0.00	H
ATOM	1263	N	CYS A	87141.639	0.860	-5.188	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.482	0.275	-3.861	1.00	0.00	C
ATOM	1265	C	CYS A	87140.008	0.152	-3.491	1.00	0.00	C
ATOM	1266	O	CYS A	87139.153	0.819	-4.073	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.211	1.124	-2.818	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.995	0.839	-2.751	1.00	0.00	S
ATOM	1269	H	CYS A	87141.337	1.779	-5.343	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.920	-0.712	-3.878	1.00	0.00	H
ATOM	1271	1HB	CYS A	87142.055	2.168	-3.041	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.806	0.906	-1.840	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.366	1.082	-3.603	1.00	0.00	H
ATOM	1274	N	ARG A	88139.715	-0.707	-2.519	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.344	-0.918	-2.072	1.00	0.00	C
ATOM	1276	C	ARG A	88138.274	-0.998	-0.547	1.00	0.00	C
ATOM	1277	O	ARG A	88139.152	-1.577	0.091	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.777	-2.198	-2.689	1.00	0.00	C
ATOM	1279	CG	ARG A	88136.918	-1.952	-3.918	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.437	-1.957	-3.574	1.00	0.00	C
ATOM	1281	NE	ARG A	88134.598	-2.033	-4.768	1.00	0.00	N
ATOM	1282	CZ	ARG A	88133.279	-2.220	-4.736	1.00	0.00	C
ATOM	1283	NH1	ARG A	88132.649	-2.351	-3.576	1.00	0.00	N
ATOM	1284	NH2	ARG A	88132.592	-2.276	-5.868	1.00	0.00	N

ATOM	1285	H	ARG A	88140.440	-1.210	-2.093	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.756	-0.077	-2.406	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.597	-2.841	-2.972	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.173	-2.705	-1.950	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.176	-0.992	-4.340	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.113	-2.730	-4.642	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.230	-2.810	-2.946	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.203	-1.050	-3.037	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.038	-1.938	-5.638	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.161	-2.310	-2.719	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88131.658	-2.491	-3.559	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.062	-2.176	-6.745	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88131.601	-2.416	-5.845	1.00	0.00	H
ATOM	1298	N	PRO A	89137.224	-0.415	0.060	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.049	-0.428	1.516	1.00	0.00	C
ATOM	1300	C	PRO A	89137.081	-1.842	2.089	1.00	0.00	C
ATOM	1301	O	PRO A	89136.463	-2.756	1.545	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.666	0.197	1.720	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.435	1.020	0.501	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.128	0.299	-0.621	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.797	0.175	2.009	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.926	-0.584	1.817	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.672	0.807	2.612	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.376	1.093	0.303	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.862	2.003	0.634	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.452	-0.396	-1.098	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.516	1.005	-1.340	1.00	0.00	H

ATOM	1312	N	ASP A	90137.806	-2.014	3.189	1.00	0.00 N
ATOM	1313	CA	ASP A	90137.917	-3.316	3.835	1.00	0.00 C
ATOM	1314	C	ASP A	90136.972	-3.412	5.029	1.00	0.00 C
ATOM	1315	O	ASP A	90137.077	-2.637	5.980	1.00	0.00 O
ATOM	1316	CB	ASP A	90139.356	-3.565	4.287	1.00	0.00 C
ATOM	1317	CG	ASP A	90139.717	-5.038	4.282	1.00	0.00 C
ATOM	1318	OD1	ASP A	90140.547	-5.448	5.120	1.00	0.00 O
ATOM	1319	OD2	ASP A	90139.169	-5.780	3.441	1.00	0.00 O
ATOM	1320	H	ASP A	90138.276	-1.246	3.577	1.00	0.00 H
ATOM	1321	HA	ASP A	90137.640	-4.068	3.111	1.00	0.00 H
ATOM	1322	1HB	ASP A	90140.030	-3.047	3.622	1.00	0.00 H
ATOM	1323	2HB	ASP A	90139.482	-3.185	5.290	1.00	0.00 H
ATOM	1324	N	SER A	91136.050	-4.367	4.972	1.00	0.00 N
ATOM	1325	CA	SER A	91135.087	-4.563	6.049	1.00	0.00 C
ATOM	1326	C	SER A	91135.527	-5.694	6.974	1.00	0.00 C
ATOM	1327	O	SER A	91134.698	-6.422	7.519	1.00	0.00 O
ATOM	1328	CB	SER A	91133.703	-4.870	5.475	1.00	0.00 C
ATOM	1329	OG	SER A	91132.679	-4.405	6.337	1.00	0.00 O
ATOM	1330	H	SER A	91136.017	-4.954	4.188	1.00	0.00 H
ATOM	1331	HA	SER A	91135.037	-3.649	6.618	1.00	0.00 H
ATOM	1332	1HB	SER A	91133.597	-4.383	4.517	1.00	0.00 H
ATOM	1333	2HB	SER A	91133.595	-5.937	5.350	1.00	0.00 H
ATOM	1334	HG	SER A	91131.982	-5.063	6.390	1.00	0.00 H
ATOM	1335	N	ARG A	92136.837	-5.835	7.146	1.00	0.00 N
ATOM	1336	CA	ARG A	92137.387	-6.876	8.006	1.00	0.00 C
ATOM	1337	C	ARG A	92137.020	-6.628	9.465	1.00	0.00 C
ATOM	1338	O	ARG A	92136.878	-7.568	10.247	1.00	0.00 O

ATOM	1339	CB	ARG A	92138.909	-6.940	7.854	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.365	-7.676	6.605	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.163	-9.177	6.737	1.00	0.00	C
ATOM	1342	NE	ARG A	92137.960	-9.631	6.042	1.00	0.00	N
ATOM	1343	CZ	ARG A	92137.717	-10.903	5.736	1.00	0.00	C
ATOM	1344	NH1	ARG A	92138.590	-11.850	6.059	1.00	0.00	N
ATOM	1345	NH2	ARG A	92136.599	-11.230	5.103	1.00	0.00	N
ATOM	1346	H	ARG A	92137.449	-5.222	6.686	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.964	-7.819	7.695	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.298	-5.934	7.815	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.324	-7.444	8.715	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.794	-7.320	5.761	1.00	0.00	H
ATOM	1351	2HG	ARG A	92140.414	-7.475	6.444	1.00	0.00	H
ATOM	1352	1HD	ARG A	92140.021	-9.681	6.317	1.00	0.00	H
ATOM	1353	2HD	ARG A	92139.078	-9.426	7.785	1.00	0.00	H
ATOM	1354	HE	ARG A	92137.299	-8.953	5.792	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92139.436	-11.610	6.536	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92138.402	-12.804	5.826	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92135.937	-10.522	4.858	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92136.416	-12.187	4.873	1.00	0.00	H
ATOM	1359	N	PHE A	93136.868	-5.358	9.825	1.00	0.00	N
ATOM	1360	CA	PHE A	93136.517	-4.988	11.192	1.00	0.00	C
ATOM	1361	C	PHE A	93135.373	-3.979	11.206	1.00	0.00	C
ATOM	1362	O	PHE A	93135.331	-3.085	12.051	1.00	0.00	O
ATOM	1363	CB	PHE A	93137.733	-4.406	11.914	1.00	0.00	C
ATOM	1364	CG	PHE A	93138.849	-5.395	12.101	1.00	0.00	C
ATOM	1365	CD1	PHE A	93139.524	-5.913	11.008	1.00	0.00	C

ATOM	1366	CD2 PHE A	93139.223	-5.804	13.372	1.00	0.00	C
ATOM	1367	CE1 PHE A	93140.552	-6.822	11.178	1.00	0.00	C
ATOM	1368	CE2 PHE A	93140.248	-6.713	13.547	1.00	0.00	C
ATOM	1369	CZ PHE A	93140.913	-7.223	12.449	1.00	0.00	C
ATOM	1370	H PHE A	93136.994	-4.652	9.157	1.00	0.00	H
ATOM	1371	HA PHE A	93136.199	-5.882	11.705	1.00	0.00	H
ATOM	1372	1HB PHE A	93138.119	-3.576	11.342	1.00	0.00	H
ATOM	1373	2HB PHE A	93137.431	-4.056	12.889	1.00	0.00	H
ATOM	1374	HD1 PHE A	93139.242	-5.600	10.014	1.00	0.00	H
ATOM	1375	HD2 PHE A	93138.702	-5.407	14.231	1.00	0.00	H
ATOM	1376	HE1 PHE A	93141.070	-7.219	10.317	1.00	0.00	H
ATOM	1377	HE2 PHE A	93140.529	-7.025	14.542	1.00	0.00	H
ATOM	1378	HZ PHE A	93141.716	-7.934	12.584	1.00	0.00	H
ATOM	1379	N ALA A	94134.446	-4.128	10.266	1.00	0.00	N
ATOM	1380	CA ALA A	94133.302	-3.230	10.171	1.00	0.00	C
ATOM	1381	C ALA A	94132.101	-3.789	10.924	1.00	0.00	C
ATOM	1382	O ALA A	94131.718	-4.944	10.733	1.00	0.00	O
ATOM	1383	CB ALA A	94132.944	-2.982	8.713	1.00	0.00	C
ATOM	1384	H ALA A	94134.534	-4.860	9.620	1.00	0.00	H
ATOM	1385	HA ALA A	94133.583	-2.285	10.613	1.00	0.00	H
ATOM	1386	1HB ALA A	94132.185	-3.686	8.404	1.00	0.00	H
ATOM	1387	2HB ALA A	94133.824	-3.111	8.100	1.00	0.00	H
ATOM	1388	3HB ALA A	94132.570	-1.976	8.600	1.00	0.00	H
ATOM	1389	N SER A	95131.509	-2.964	11.783	1.00	0.00	N
ATOM	1390	CA SER A	95130.351	-3.376	12.566	1.00	0.00	C
ATOM	1391	C SER A	95129.056	-3.097	11.811	1.00	0.00	C
ATOM	1392	O SER A	95128.835	-1.988	11.325	1.00	0.00	O

ATOM	1393	CB	SER A	95130.336	-2.652	13.913	1.00	0.00	C
ATOM	1394	OG	SER A	95130.569	-1.263	13.749	1.00	0.00	O
ATOM	1395	H	SER A	95131.861	-2.056	11.891	1.00	0.00	H
ATOM	1396	HA	SER A	95130.430	-4.438	12.740	1.00	0.00	H
ATOM	1397	1HB	SER A	95129.372	-2.788	14.382	1.00	0.00	H
ATOM	1398	2HB	SER A	95131.107	-3.062	14.548	1.00	0.00	H
ATOM	1399	HG	SER A	95129.901	-0.892	13.169	1.00	0.00	H
ATOM	1400	N	LEU A	96128.201	-4.111	11.717	1.00	0.00	N
ATOM	1401	CA	LEU A	96126.927	-3.976	11.022	1.00	0.00	C
ATOM	1402	C	LEU A	96125.985	-5.119	11.386	1.00	0.00	C
ATOM	1403	O	LEU A	96126.309	-6.290	11.190	1.00	0.00	O
ATOM	1404	CB	LEU A	96127.150	-3.939	9.507	1.00	0.00	C
ATOM	1405	CG	LEU A	96127.031	-2.553	8.870	1.00	0.00	C
ATOM	1406	CD1	LEU A	96127.658	-2.548	7.484	1.00	0.00	C
ATOM	1407	CD2	LEU A	96125.573	-2.123	8.800	1.00	0.00	C
ATOM	1408	H	LEU A	96128.433	-4.971	12.126	1.00	0.00	H
ATOM	1409	HA	LEU A	96126.478	-3.044	11.333	1.00	0.00	H
ATOM	1410	1HB	LEU A	96128.137	-4.324	9.301	1.00	0.00	H
ATOM	1411	2HB	LEU A	96126.424	-4.588	9.040	1.00	0.00	H
ATOM	1412	HG	LEU A	96127.563	-1.837	9.479	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96127.346	-3.430	6.944	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96128.733	-2.544	7.576	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96127.339	-1.666	6.948	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96124.961	-2.970	8.524	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96125.463	-1.344	8.060	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96125.261	-1.752	9.764	1.00	0.00	H
ATOM	1419	N	GLN A	97124.818	-4.770	11.919	1.00	0.00	N

ATOM	1420	CA	GLN A	97123.829	-5.767	12.312	1.00	0.00	C
ATOM	1421	C	GLN A	97122.418	-5.307	11.952	1.00	0.00	C
ATOM	1422	O	GLN A	97121.781	-4.580	12.715	1.00	0.00	O
ATOM	1423	CB	GLN A	97123.920	-6.040	13.814	1.00	0.00	C
ATOM	1424	CG	GLN A	97124.007	-4.778	14.657	1.00	0.00	C
ATOM	1425	CD	GLN A	97123.601	-5.011	16.100	1.00	0.00	C
ATOM	1426	OE1	GLN A	97122.523	-4.598	16.527	1.00	0.00	O
ATOM	1427	NE2	GLN A	97124.464	-5.675	16.858	1.00	0.00	N
ATOM	1428	H	GLN A	97124.618	-3.821	12.052	1.00	0.00	H
ATOM	1429	HA	GLN A	97124.047	-6.679	11.777	1.00	0.00	H
ATOM	1430	1HB	GLN A	97123.045	-6.593	14.122	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.798	-6.637	14.007	1.00	0.00	H
ATOM	1432	1HG	GLN A	97125.024	-4.418	14.640	1.00	0.00	H
ATOM	1433	2HG	GLN A	97123.354	-4.030	14.231	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97125.305	-5.974	16.450	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97124.228	-5.840	17.794	1.00	0.00	H
ATOM	1436	N	PRO A	98121.906	-5.725	10.780	1.00	0.00	N
ATOM	1437	CA	PRO A	98120.563	-5.349	10.327	1.00	0.00	C
ATOM	1438	C	PRO A	98119.501	-5.591	11.395	1.00	0.00	C
ATOM	1439	O	PRO A	98118.481	-4.905	11.436	1.00	0.00	O
ATOM	1440	CB	PRO A	98120.328	-6.262	9.121	1.00	0.00	C
ATOM	1441	CG	PRO A	98121.691	-6.560	8.604	1.00	0.00	C
ATOM	1442	CD	PRO A	98122.594	-6.595	9.805	1.00	0.00	C
ATOM	1443	HA	PRO A	98120.526	-4.315	10.012	1.00	0.00	H
ATOM	1444	1HB	PRO A	98119.819	-7.160	9.441	1.00	0.00	H
ATOM	1445	2HB	PRO A	98119.730	-5.745	8.386	1.00	0.00	H
ATOM	1446	1HG	PRO A	98121.692	-7.519	8.105	1.00	0.00	H

ATOM	1447	2HG	PRO A	98122.004	-5.782	7.922	1.00	0.00	H
ATOM	1448	1HD	PRO A	98122.681	-7.602	10.184	1.00	0.00	H
ATOM	1449	2HD	PRO A	98123.568	-6.199	9.557	1.00	0.00	H
ATOM	1450	N	SER A	99119.751	-6.571	12.257	1.00	0.00	N
ATOM	1451	CA	SER A	99118.818	-6.903	13.328	1.00	0.00	C
ATOM	1452	C	SER A	99119.407	-6.553	14.690	1.00	0.00	C
ATOM	1453	O	SER A	99120.557	-6.884	14.983	1.00	0.00	O
ATOM	1454	CB	SER A	99118.462	-8.390	13.279	1.00	0.00	C
ATOM	1455	OG	SER A	99118.677	-8.924	11.984	1.00	0.00	O
ATOM	1456	H	SER A	99120.583	-7.081	12.174	1.00	0.00	H
ATOM	1457	HA	SER A	99117.920	-6.322	13.178	1.00	0.00	H
ATOM	1458	1HB	SER A	99119.079	-8.929	13.983	1.00	0.00	H
ATOM	1459	2HB	SER A	99117.422	-8.518	13.540	1.00	0.00	H
ATOM	1460	HG	SER A	99119.277	-9.671	12.041	1.00	0.00	H
ATOM	1461	N	GLY A	100118.614	-5.885	15.520	1.00	0.00	N
ATOM	1462	CA	GLY A	100119.076	-5.501	16.842	1.00	0.00	C
ATOM	1463	C	GLY A	100118.068	-5.831	17.927	1.00	0.00	C
ATOM	1464	O	GLY A	100116.862	-5.824	17.680	1.00	0.00	O
ATOM	1465	H	GLY A	100117.707	-5.647	15.233	1.00	0.00	H
ATOM	1466	1HA	GLY A	100119.999	-6.020	17.052	1.00	0.00	H
ATOM	1467	2HA	GLY A	100119.262	-4.437	16.850	1.00	0.00	H
ATOM	1468	N	PRO A	101118.536	-6.127	19.153	1.00	0.00	N
ATOM	1469	CA	PRO A	101117.654	-6.460	20.276	1.00	0.00	C
ATOM	1470	C	PRO A	101116.891	-5.245	20.792	1.00	0.00	C
ATOM	1471	O	PRO A	101117.052	-4.840	21.944	1.00	0.00	O
ATOM	1472	CB	PRO A	101118.620	-6.980	21.341	1.00	0.00	C
ATOM	1473	CG	PRO A	101119.916	-6.311	21.034	1.00	0.00	C

ATOM	1474	CD	PRO A 1011	19.960	-6.160	19.538	1.00	0.00	C
ATOM	1475	HA	PRO A 1011	16.954	-7.238	20.010	1.00	0.00	H
ATOM	1476	1HB	PRO A 1011	18.258	-6.710	22.322	1.00	0.00	H
ATOM	1477	2HB	PRO A 1011	18.705	-8.054	21.263	1.00	0.00	H
ATOM	1478	1HG	PRO A 1011	19.950	-5.343	21.511	1.00	0.00	H
ATOM	1479	2HG	PRO A 1011	20.736	-6.926	21.373	1.00	0.00	H
ATOM	1480	1HD	PRO A 1011	20.453	-5.238	19.267	1.00	0.00	H
ATOM	1481	2HD	PRO A 1011	20.461	-7.003	19.088	1.00	0.00	H
ATOM	1482	N	SER A 1021	16.057	-4.667	19.933	1.00	0.00	N
ATOM	1483	CA	SER A 1021	15.268	-3.498	20.303	1.00	0.00	C
ATOM	1484	C	SER A 1021	13.913	-3.913	20.867	1.00	0.00	C
ATOM	1485	O	SER A 1021	13.606	-3.648	22.030	1.00	0.00	O
ATOM	1486	CB	SER A 1021	15.071	-2.585	19.091	1.00	0.00	C
ATOM	1487	OG	SER A 1021	14.531	-1.334	19.478	1.00	0.00	O
ATOM	1488	H	SER A 1021	15.971	-5.036	19.029	1.00	0.00	H
ATOM	1489	HA	SER A 1021	15.812	-2.959	21.064	1.00	0.00	H
ATOM	1490	1HB	SER A 1021	16.024	-2.418	18.611	1.00	0.00	H
ATOM	1491	2HB	SER A 1021	14.394	-3.057	18.394	1.00	0.00	H
ATOM	1492	HG	SER A 1021	15.179	-0.642	19.319	1.00	0.00	H
ATOM	1493	N	SER A 1031	13.105	-4.563	20.036	1.00	0.00	N
ATOM	1494	CA	SER A 1031	11.783	-5.015	20.452	1.00	0.00	C
ATOM	1495	C	SER A 1031	11.266	-6.112	19.527	1.00	0.00	C
ATOM	1496	O	SER A 1031	11.769	-6.290	18.418	1.00	0.00	O
ATOM	1497	CB	SER A 1031	10.802	-3.840	20.466	1.00	0.00	C
ATOM	1498	OG	SER A 1031	11.343	-2.733	21.164	1.00	0.00	O
ATOM	1499	H	SER A 1031	13.407	-4.745	19.121	1.00	0.00	H
ATOM	1500	HA	SER A 1031	11.868	-5.413	21.452	1.00	0.00	H

ATOM	1501	1HB	SER A 103	110.587	-3.541	19.452	1.00	0.00	H
ATOM	1502	2HB	SER A 103	109.887	-4.146	20.952	1.00	0.00	H
ATOM	1503	HG	SER A 103	111.681	-3.022	22.014	1.00	0.00	H
ATOM	1504	N	GLY A 104	110.261	-6.846	19.992	1.00	0.00	N
ATOM	1505	CA	GLY A 104	109.694	-7.916	19.194	1.00	0.00	C
ATOM	1506	C	GLY A 104	108.344	-8.374	19.712	1.00	0.00	C
ATOM	1507	O	GLY A 104	108.159	-9.597	19.890	1.00	0.00	O
ATOM	1508	OXT	GLY A 104	107.472	-7.510	19.941	1.00	0.00	O
ATOM	1509	H	GLY A 104	109.901	-6.658	20.885	1.00	0.00	H
ATOM	1510	1HA	GLY A 104	109.578	-7.571	18.178	1.00	0.00	H
ATOM	1511	2HA	GLY A 104	110.373	-8.756	19.203	1.00	0.00	H
TER	1512	GLY A 104							
ENDMDL									

Three-Dimensional Structure Coordinate Table 6

ATOM 1	N	GLY A	1112.318	9.750	-2.270	1.00	0.00	N
ATOM 2	CA	GLY A	1111.240	9.201	-3.139	1.00	0.00	C
ATOM 3	C	GLY A	1110.691	7.886	-2.623	1.00	0.00	C
ATOM 4	O	GLY A	1109.480	7.663	-2.635	1.00	0.00	O
ATOM 5	1H	GLY A	1113.178	9.172	-2.358	1.00	0.00	H
ATOM 6	2H	GLY A	1112.012	9.746	-1.276	1.00	0.00	H
ATOM 7	3H	GLY A	1112.539	10.727	-2.549	1.00	0.00	H
ATOM 8	1HA	GLY A	1110.435	9.918	-3.192	1.00	0.00	H
ATOM 9	2HA	GLY A	1111.637	9.047	-4.132	1.00	0.00	H
ATOM10	N	SER A	2111.584	7.013	-2.167	1.00	0.00	N
ATOM11	CA	SER A	2111.182	5.712	-1.643	1.00	0.00	C
ATOM12	C	SER A	2112.008	5.342	-0.415	1.00	0.00	C

ATOM13	O	SER A	2111.463	4.944	0.615	1.00	0.00	O
ATOM14	CB	SER A	2111.337	4.636	-2.718	1.00	0.00	C
ATOM15	OG	SER A	2110.409	4.831	-3.772	1.00	0.00	O
ATOM16	H	SER A	2112.534	7.249	-2.182	1.00	0.00	H
ATOM17	HA	SER A	2110.143	5.776	-1.357	1.00	0.00	H
ATOM18	1HB	SER A	2112.337	4.677	-3.125	1.00	0.00	H
ATOM19	2HB	SER A	2111.166	3.664	-2.280	1.00	0.00	H
ATOM20	HG	SER A	2109.545	5.031	-3.405	1.00	0.00	H
ATOM21	N	SER A	3113.325	5.477	-0.531	1.00	0.00	N
ATOM22	CA	SER A	3114.226	5.157	0.571	1.00	0.00	C
ATOM23	C	SER A	3114.354	6.336	1.530	1.00	0.00	C
ATOM24	O	SER A	3114.036	6.223	2.713	1.00	0.00	O
ATOM25	CB	SER A	3115.604	4.770	0.033	1.00	0.00	C
ATOM26	OG	SER A	3116.188	5.838	-0.692	1.00	0.00	O
ATOM27	H	SER A	3113.700	5.799	-1.377	1.00	0.00	H
ATOM28	HA	SER A	3113.809	4.316	1.105	1.00	0.00	H
ATOM29	1HB	SER A	3116.252	4.515	0.859	1.00	0.00	H
ATOM30	2HB	SER A	3115.506	3.917	-0.623	1.00	0.00	H
ATOM31	HG	SER A	3117.117	5.913	-0.460	1.00	0.00	H
ATOM32	N	GLY A	4114.820	7.466	1.009	1.00	0.00	N
ATOM33	CA	GLY A	4114.983	8.649	1.833	1.00	0.00	C
ATOM34	C	GLY A	4116.174	8.550	2.765	1.00	0.00	C
ATOM35	O	GLY A	4116.069	8.004	3.863	1.00	0.00	O
ATOM36	H	GLY A	4115.058	7.497	0.060	1.00	0.00	H
ATOM37	1HA	GLY A	4115.113	9.507	1.190	1.00	0.00	H
ATOM38	2HA	GLY A	4114.089	8.787	2.424	1.00	0.00	H
ATOM39	N	SER A	5117.312	9.078	2.326	1.00	0.00	N

ATOM40	CA	SER A	5118.529	9.046	3.127	1.00	0.00 C
ATOM41	C	SER A	5119.241	10.395	3.092	1.00	0.00 C
ATOM42	O	SER A	5119.252	11.074	2.066	1.00	0.00 O
ATOM43	CB	SER A	5119.468	7.948	2.623	1.00	0.00 C
ATOM44	OG	SER A	5119.748	8.109	1.244	1.00	0.00 O
ATOM45	H	SER A	5117.334	9.500	1.441	1.00	0.00 H
ATOM46	HA	SER A	5118.249	8.827	4.147	1.00	0.00 H
ATOM47	1HB	SER A	5120.397	7.991	3.173	1.00	0.00 H
ATOM48	2HB	SER A	5119.006	6.984	2.774	1.00	0.00 H
ATOM49	HG	SER A	5120.660	7.865	1.070	1.00	0.00 H
ATOM50	N	SER A	6119.832	10.776	4.219	1.00	0.00 N
ATOM51	CA	SER A	6120.546	12.044	4.317	1.00	0.00 C
ATOM52	C	SER A	6121.965	11.832	4.834	1.00	0.00 C
ATOM53	O	SER A	6122.531	12.701	5.498	1.00	0.00 O
ATOM54	CB	SER A	6119.794	13.006	5.238	1.00	0.00 C
ATOM55	OG	SER A	6118.457	13.187	4.805	1.00	0.00 O
ATOM56	H	SER A	6119.789	10.190	5.003	1.00	0.00 H
ATOM57	HA	SER A	6120.597	12.473	3.327	1.00	0.00 H
ATOM58	1HB	SER A	6119.782	12.606	6.240	1.00	0.00 H
ATOM59	2HB	SER A	6120.292	13.964	5.238	1.00	0.00 H
ATOM60	HG	SER A	6118.443	13.319	3.854	1.00	0.00 H
ATOM61	N	GLY A	7122.535	10.671	4.527	1.00	0.00 N
ATOM62	CA	GLY A	7123.883	10.367	4.969	1.00	0.00 C
ATOM63	C	GLY A	7124.017	8.950	5.488	1.00	0.00 C
ATOM64	O	GLY A	7123.400	8.587	6.490	1.00	0.00 O
ATOM65	H	GLY A	7122.036	10.016	3.995	1.00	0.00 H
ATOM66	1HA	GLY A	7124.561	10.500	4.139	1.00	0.00 H

ATOM67	2HA	GLY A	7124.155	11.054	5.756	1.00	0.00	H
ATOM68	N	LEU A	8124.825	8.144	4.805	1.00	0.00	N
ATOM69	CA	LEU A	8125.038	6.758	5.203	1.00	0.00	C
ATOM70	C	LEU A	8126.306	6.621	6.038	1.00	0.00	C
ATOM71	O	LEU A	8126.247	6.510	7.263	1.00	0.00	O
ATOM72	CB	LEU A	8125.123	5.858	3.969	1.00	0.00	C
ATOM73	CG	LEU A	8123.782	5.319	3.467	1.00	0.00	C
ATOM74	CD1	LEU A	8123.953	4.629	2.123	1.00	0.00	C
ATOM75	CD2	LEU A	8123.178	4.364	4.486	1.00	0.00	C
ATOM76	H	LEU A	8125.289	8.492	4.014	1.00	0.00	H
ATOM77	HA	LEU A	8124.196	6.453	5.801	1.00	0.00	H
ATOM78	1HB	LEU A	8125.583	6.421	3.169	1.00	0.00	H
ATOM79	2HB	LEU A	8125.757	5.017	4.205	1.00	0.00	H
ATOM80	HG	LEU A	8123.097	6.144	3.333	1.00	0.00	H
ATOM81	1HD1	LEU A	8123.170	3.896	1.992	1.00	0.00	H
ATOM82	2HD1	LEU A	8124.915	4.140	2.089	1.00	0.00	H
ATOM83	3HD1	LEU A	8123.893	5.362	1.331	1.00	0.00	H
ATOM84	1HD2	LEU A	8123.006	4.890	5.414	1.00	0.00	H
ATOM85	2HD2	LEU A	8123.859	3.544	4.658	1.00	0.00	H
ATOM86	3HD2	LEU A	8122.241	3.982	4.110	1.00	0.00	H
ATOM87	N	ALA A	9127.450	6.628	5.367	1.00	0.00	N
ATOM88	CA	ALA A	9128.735	6.505	6.044	1.00	0.00	C
ATOM89	C	ALA A	9129.891	6.773	5.085	1.00	0.00	C
ATOM90	O	ALA A	9130.601	5.854	4.679	1.00	0.00	O
ATOM91	CB	ALA A	9128.872	5.123	6.665	1.00	0.00	C
ATOM92	H	ALA A	9127.429	6.720	4.392	1.00	0.00	H
ATOM93	HA	ALA A	9128.764	7.235	6.839	1.00	0.00	H

ATOM94	1HB	ALA A	9127.891	4.724	6.876	1.00	0.00	H
ATOM95	2HB	ALA A	9129.436	5.195	7.583	1.00	0.00	H
ATOM96	3HB	ALA A	9129.387	4.468	5.978	1.00	0.00	H
ATOM97	N	MET A	10130.074	8.041	4.727	1.00	0.00	N
ATOM98	CA	MET A	10131.144	8.429	3.816	1.00	0.00	C
ATOM99	C	MET A	10131.191	9.946	3.646	1.00	0.00	C
ATOM	100	O	MET A	10130.954	10.465	2.554	1.00	0.00 O
ATOM	101	CB	MET A	10130.955	7.754	2.457	1.00	0.00 C
ATOM	102	CG	MET A	10129.539	7.863	1.913	1.00	0.00 C
ATOM	103	SD	MET A	10129.407	9.023	0.539	1.00	0.00 S
ATOM	104	CE	MET A	10129.163	7.897	-0.833	1.00	0.00 C
ATOM	105	H	MET A	10129.476	8.729	5.084	1.00	0.00 H
ATOM	106	HA	MET A	10132.078	8.099	4.245	1.00	0.00 H
ATOM	107	1HB	MET A	10131.628	8.210	1.746	1.00	0.00 H
ATOM	108	2HB	MET A	10131.202	6.707	2.551	1.00	0.00 H
ATOM	109	1HG	MET A	10129.223	6.888	1.573	1.00	0.00 H
ATOM	110	2HG	MET A	10128.887	8.193	2.709	1.00	0.00 H
ATOM	111	1HE	MET A	10130.124	7.587	-1.218	1.00	0.00 H
ATOM	112	2HE	MET A	10128.607	8.395	-1.613	1.00	0.00 H
ATOM	113	3HE	MET A	10128.615	7.031	-0.494	1.00	0.00 H
ATOM	114	N	PRO A	11131.502	10.682	4.727	1.00	0.00 N
ATOM	115	CA	PRO A	11131.579	12.145	4.688	1.00	0.00 C
ATOM	116	C	PRO A	11132.593	12.645	3.660	1.00	0.00 C
ATOM	117	O	PRO A	11132.293	13.544	2.875	1.00	0.00 O
ATOM	118	CB	PRO A	11132.019	12.534	6.104	1.00	0.00 C
ATOM	119	CG	PRO A	11131.698	11.352	6.955	1.00	0.00 C
ATOM	120	CD	PRO A	11131.801	10.145	6.065	1.00	0.00 C

ATOM	121	HA	PRO A	11130.615	12.582	4.476	1.00	0.00	H
ATOM	122	1HB	PRO A	11133.076	12.749	6.109	1.00	0.00	H
ATOM	123	2HB	PRO A	11131.469	13.407	6.424	1.00	0.00	H
ATOM	124	1HG	PRO A	11132.411	11.280	7.761	1.00	0.00	H
ATOM	125	2HG	PRO A	11130.696	11.444	7.348	1.00	0.00	H
ATOM	126	1HD	PRO A	11132.798	9.733	6.102	1.00	0.00	H
ATOM	127	2HD	PRO A	11131.072	9.402	6.353	1.00	0.00	H
ATOM	128	N	PRO A	12133.809	12.066	3.642	1.00	0.00	N
ATOM	129	CA	PRO A	12134.853	12.465	2.692	1.00	0.00	C
ATOM	130	C	PRO A	12134.377	12.375	1.247	1.00	0.00	C
ATOM	131	O	PRO A	12134.926	13.028	0.359	1.00	0.00	O
ATOM	132	CB	PRO A	12135.981	11.461	2.945	1.00	0.00	C
ATOM	133	CG	PRO A	12135.751	10.969	4.331	1.00	0.00	C
ATOM	134	CD	PRO A	12134.262	10.980	4.532	1.00	0.00	C
ATOM	135	HA	PRO A	12135.206	13.467	2.892	1.00	0.00	H
ATOM	136	1HB	PRO A	12135.918	10.658	2.225	1.00	0.00	H
ATOM	137	2HB	PRO A	12136.935	11.957	2.856	1.00	0.00	H
ATOM	138	1HG	PRO A	12136.135	9.965	4.434	1.00	0.00	H
ATOM	139	2HG	PRO A	12136.229	11.629	5.040	1.00	0.00	H
ATOM	140	1HD	PRO A	12133.834	10.034	4.236	1.00	0.00	H
ATOM	141	2HD	PRO A	12134.023	11.198	5.561	1.00	0.00	H
ATOM	142	N	GLY A	13133.351	11.559	1.017	1.00	0.00	N
ATOM	143	CA	GLY A	13132.818	11.397	-0.322	1.00	0.00	C
ATOM	144	C	GLY A	13133.068	10.012	-0.886	1.00	0.00	C
ATOM	145	O	GLY A	13132.330	9.545	-1.754	1.00	0.00	O
ATOM	146	H	GLY A	13132.954	11.064	1.765	1.00	0.00	H
ATOM	147	1HA	GLY A	13131.753	11.577	-0.298	1.00	0.00	H

ATOM	148	2HA	GLY A	13133.278	12.127	-0.972	1.00	0.00	H
ATOM	149	N	ASN A	14134.112	9.353	-0.393	1.00	0.00	N
ATOM	150	CA	ASN A	14134.459	8.014	-0.854	1.00	0.00	C
ATOM	151	C	ASN A	14133.299	7.045	-0.640	1.00	0.00	C
ATOM	152	O	ASN A	14132.195	7.453	-0.284	1.00	0.00	O
ATOM	153	CB	ASN A	14135.703	7.506	-0.122	1.00	0.00	C
ATOM	154	CG	ASN A	14136.823	8.529	-0.108	1.00	0.00	C
ATOM	155	OD1	ASN A	14136.609	9.697	0.216	1.00	0.00	O
ATOM	156	ND2	ASN A	14138.026	8.093	-0.460	1.00	0.00	N
ATOM	157	H	ASN A	14134.664	9.778	0.297	1.00	0.00	H
ATOM	158	HA	ASN A	14134.672	8.072	-1.911	1.00	0.00	H
ATOM	159	1HB	ASN A	14135.442	7.272	0.899	1.00	0.00	H
ATOM	160	2HB	ASN A	14136.062	6.613	-0.612	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.123	7.149	-0.706	1.00	0.00	H
ATOM	162	2HD2	ASN A	14138.769	8.733	-0.460	1.00	0.00	H
ATOM	163	N	SER A	15133.559	5.761	-0.861	1.00	0.00	N
ATOM	164	CA	SER A	15132.538	4.734	-0.693	1.00	0.00	C
ATOM	165	C	SER A	15132.234	4.506	0.785	1.00	0.00	C
ATOM	166	O	SER A	15131.163	4.867	1.271	1.00	0.00	O
ATOM	167	CB	SER A	15132.989	3.423	-1.341	1.00	0.00	C
ATOM	168	OG	SER A	15132.025	2.403	-1.154	1.00	0.00	O
ATOM	169	H	SER A	15134.460	5.496	-1.144	1.00	0.00	H
ATOM	170	HA	SER A	15131.639	5.077	-1.184	1.00	0.00	H
ATOM	171	1HB	SER A	15133.130	3.578	-2.400	1.00	0.00	H
ATOM	172	2HB	SER A	15133.921	3.108	-0.896	1.00	0.00	H
ATOM	173	HG	SER A	15132.121	2.027	-0.276	1.00	0.00	H
ATOM	174	N	HIS A	16133.184	3.902	1.492	1.00	0.00	N

ATOM	175	CA	HIS A	16133.019	3.626	2.914	1.00	0.00	C
ATOM	176	C	HIS A	16133.864	4.578	3.754	1.00	0.00	C
ATOM	177	O	HIS A	16133.441	5.026	4.820	1.00	0.00	O
ATOM	178	CB	HIS A	16133.401	2.176	3.221	1.00	0.00	C
ATOM	179	CG	HIS A	16132.222	1.262	3.354	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.448	1.193	4.493	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.686	0.375	2.482	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.487	0.303	4.316	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.610	-0.207	3.104	1.00	0.00	N
ATOM	184	H	HIS A	16134.016	3.638	1.047	1.00	0.00	H
ATOM	185	HA	HIS A	16131.978	3.775	3.162	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.024	1.800	2.424	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.953	2.144	4.149	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.582	1.718	5.309	1.00	0.00	H
ATOM	189	HD2	HIS A	16132.040	0.165	1.482	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.730	0.038	5.039	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.981	-0.833	2.688	1.00	0.00	H
ATOM	192	N	GLY A	17135.063	4.882	3.267	1.00	0.00	N
ATOM	193	CA	GLY A	17135.949	5.778	3.985	1.00	0.00	C
ATOM	194	C	GLY A	17137.401	5.349	3.901	1.00	0.00	C
ATOM	195	O	GLY A	17138.064	5.173	4.923	1.00	0.00	O
ATOM	196	H	GLY A	17135.348	4.495	2.413	1.00	0.00	H
ATOM	197	1HA	GLY A	17135.854	6.771	3.570	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.654	5.805	5.024	1.00	0.00	H
ATOM	199	N	LEU A	18137.897	5.182	2.678	1.00	0.00	N
ATOM	200	CA	LEU A	18139.279	4.771	2.465	1.00	0.00	C
ATOM	201	C	LEU A	18140.246	5.872	2.888	1.00	0.00	C

ATOM	202	O	LEU A	18140.497	6.814	2.136	1.00	0.00	O
ATOM	203	CB	LEU A	18139.506	4.415	0.994	1.00	0.00	C
ATOM	204	CG	LEU A	18138.484	3.445	0.398	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.481	3.540	-1.120	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.781	2.021	0.844	1.00	0.00	C
ATOM	207	H	LEU A	18137.318	5.338	1.903	1.00	0.00	H
ATOM	208	HA	LEU A	18139.462	3.895	3.070	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.484	5.328	0.417	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.486	3.972	0.900	1.00	0.00	H
ATOM	211	HG	LEU A	18137.498	3.709	0.751	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.860	4.506	-1.421	1.00	0.00	H
ATOM	213	2HD1	LEU A	18137.472	3.419	-1.485	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.109	2.763	-1.530	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.591	1.619	0.254	1.00	0.00	H
ATOM	216	2HD2	LEU A	18137.899	1.411	0.709	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.061	2.021	1.887	1.00	0.00	H
ATOM	218	N	GLU A	19140.783	5.748	4.096	1.00	0.00	N
ATOM	219	CA	GLU A	19141.722	6.733	4.621	1.00	0.00	C
ATOM	220	C	GLU A	19142.809	6.061	5.452	1.00	0.00	C
ATOM	221	O	GLU A	19142.810	4.843	5.622	1.00	0.00	O
ATOM	222	CB	GLU A	19140.984	7.772	5.467	1.00	0.00	C
ATOM	223	CG	GLU A	19140.233	7.174	6.645	1.00	0.00	C
ATOM	224	CD	GLU A	19139.754	8.226	7.625	1.00	0.00	C
ATOM	225	OE1	GLU A	19140.533	9.155	7.928	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.599	8.123	8.091	1.00	0.00	O
ATOM	227	H	GLU A	19140.544	4.976	4.650	1.00	0.00	H
ATOM	228	HA	GLU A	19142.184	7.230	3.779	1.00	0.00	H

ATOM	229	1HB	GLU A	19141.702	8.483	5.849	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.274	8.291	4.841	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.375	6.635	6.272	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.888	6.490	7.164	1.00	0.00	H
ATOM	233	N	VAL A	20143.732	6.865	5.969	1.00	0.00	N
ATOM	234	CA	VAL A	20144.825	6.349	6.785	1.00	0.00	C
ATOM	235	C	VAL A	20144.297	5.620	8.015	1.00	0.00	C
ATOM	236	O	VAL A	20143.530	6.181	8.799	1.00	0.00	O
ATOM	237	CB	VAL A	20145.770	7.479	7.235	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.993	6.908	7.939	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.181	8.337	6.049	1.00	0.00	C
ATOM	240	H	VAL A	20143.678	7.829	5.798	1.00	0.00	H
ATOM	241	HA	VAL A	20145.391	5.654	6.182	1.00	0.00	H
ATOM	242	HB	VAL A	20145.240	8.105	7.938	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.795	6.830	8.997	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.838	7.559	7.777	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.211	5.928	7.540	1.00	0.00	H
ATOM	246	1HG2	VAL A	20145.398	9.046	5.828	1.00	0.00	H
ATOM	247	2HG2	VAL A	20146.348	7.705	5.189	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.091	8.868	6.287	1.00	0.00	H
ATOM	249	N	GLY A	21144.711	4.369	8.179	1.00	0.00	N
ATOM	250	CA	GLY A	21144.269	3.583	9.316	1.00	0.00	C
ATOM	251	C	GLY A	21143.228	2.548	8.939	1.00	0.00	C
ATOM	252	O	GLY A	21143.210	1.447	9.489	1.00	0.00	O
ATOM	253	H	GLY A	21145.322	3.975	7.522	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.123	3.080	9.745	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.847	4.248	10.056	1.00	0.00	H

ATOM	256	N	SER A	22142.359	2.901	7.997	1.00	0.00	N
ATOM	257	CA	SER A	22141.310	1.995	7.546	1.00	0.00	C
ATOM	258	C	SER A	22141.877	0.922	6.622	1.00	0.00	C
ATOM	259	O	SER A	22142.764	1.192	5.812	1.00	0.00	O
ATOM	260	CB	SER A	22140.208	2.774	6.826	1.00	0.00	C
ATOM	261	OG	SER A	22139.268	3.299	7.747	1.00	0.00	O
ATOM	262	H	SER A	22142.425	3.793	7.596	1.00	0.00	H
ATOM	263	HA	SER A	22140.889	1.516	8.417	1.00	0.00	H
ATOM	264	1HB	SER A	22140.649	3.592	6.276	1.00	0.00	H
ATOM	265	2HB	SER A	22139.694	2.116	6.141	1.00	0.00	H
ATOM	266	HG	SER A	22138.475	3.569	7.277	1.00	0.00	H
ATOM	267	N	LEU A	23141.359	-0.295	6.749	1.00	0.00	N
ATOM	268	CA	LEU A	23141.815	-1.410	5.924	1.00	0.00	C
ATOM	269	C	LEU A	23141.296	-1.278	4.496	1.00	0.00	C
ATOM	270	O	LEU A	23140.234	-0.702	4.261	1.00	0.00	O
ATOM	271	CB	LEU A	23141.353	-2.738	6.526	1.00	0.00	C
ATOM	272	CG	LEU A	23141.931	-3.059	7.905	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.954	-3.903	8.709	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.268	-3.773	7.769	1.00	0.00	C
ATOM	275	H	LEU A	23140.655	-0.449	7.412	1.00	0.00	H
ATOM	276	HA	LEU A	23142.894	-1.388	5.907	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.276	-2.718	6.605	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.633	-3.531	5.850	1.00	0.00	H
ATOM	279	HG	LEU A	23142.096	-2.137	8.443	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.921	-4.902	8.302	1.00	0.00	H
ATOM	281	2HD1	LEU A	23139.970	-3.460	8.659	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.277	-3.944	9.739	1.00	0.00	H

ATOM	283	1HD2	LEU A	23143.908	-3.500	8.594	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.736	-3.485	6.840	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.107	-4.841	7.776	1.00	0.00	H
ATOM	286	N	ALAA	24142.055	-1.814	3.546	1.00	0.00	N
ATOM	287	CA	ALAA	24141.672	-1.757	2.140	1.00	0.00	C
ATOM	288	C	ALAA	24142.245	-2.941	1.367	1.00	0.00	C
ATOM	289	O	ALAA	24143.206	-3.573	1.804	1.00	0.00	O
ATOM	290	CB	ALAA	24142.135	-0.447	1.520	1.00	0.00	C
ATOM	291	H	ALAA	24142.890	-2.260	3.795	1.00	0.00	H
ATOM	292	HA	ALAA	24140.593	-1.793	2.086	1.00	0.00	H
ATOM	293	1HB	ALAA	24143.026	-0.105	2.025	1.00	0.00	H
ATOM	294	2HB	ALAA	24141.356	0.295	1.623	1.00	0.00	H
ATOM	295	3HB	ALAA	24142.350	-0.601	0.473	1.00	0.00	H
ATOM	296	N	GLU A	25141.647	-3.236	0.217	1.00	0.00	N
ATOM	297	CA	GLU A	25142.098	-4.344	-0.617	1.00	0.00	C
ATOM	298	C	GLU A	25142.441	-3.863	-2.023	1.00	0.00	C
ATOM	299	O	GLU A	25141.810	-2.945	-2.547	1.00	0.00	O
ATOM	300	CB	GLU A	25141.023	-5.430	-0.684	1.00	0.00	C
ATOM	301	CG	GLU A	25141.523	-6.747	-1.252	1.00	0.00	C
ATOM	302	CD	GLU A	25140.399	-7.623	-1.770	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.407	-7.947	-2.976	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.511	-7.986	-0.970	1.00	0.00	O
ATOM	305	H	GLU A	25140.885	-2.695	-0.079	1.00	0.00	H
ATOM	306	HA	GLU A	25142.987	-4.758	-0.164	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.646	-5.611	0.311	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.212	-5.078	-1.306	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.200	-6.540	-2.066	1.00	0.00	H

ATOM	310	2HG	GLU A	25142.048	-7.283	-0.475	1.00	0.00	H
ATOM	311	N	VAL A	26143.445	-4.489	-2.629	1.00	0.00	N
ATOM	312	CA	VAL A	26143.872	-4.124	-3.974	1.00	0.00	C
ATOM	313	C	VAL A	26143.444	-5.178	-4.990	1.00	0.00	C
ATOM	314	O	VAL A	26143.415	-6.370	-4.688	1.00	0.00	O
ATOM	315	CB	VAL A	26145.399	-3.944	-4.051	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.804	-3.375	-5.401	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.890	-3.054	-2.919	1.00	0.00	C
ATOM	318	H	VAL A	26143.910	-5.212	-2.160	1.00	0.00	H
ATOM	319	HA	VAL A	26143.406	-3.183	-4.229	1.00	0.00	H
ATOM	320	HB	VAL A	26145.861	-4.915	-3.942	1.00	0.00	H
ATOM	321	1HG1	VAL A	26146.882	-3.336	-5.467	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.401	-2.378	-5.506	1.00	0.00	H
ATOM	323	3HG1	VAL A	26145.418	-4.005	-6.188	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.976	-3.637	-2.013	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.186	-2.250	-2.763	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.855	-2.643	-3.175	1.00	0.00	H
ATOM	327	N	LYS A	27143.116	-4.729	-6.197	1.00	0.00	N
ATOM	328	CA	LYS A	27142.690	-5.633	-7.259	1.00	0.00	C
ATOM	329	C	LYS A	27143.880	-6.082	-8.101	1.00	0.00	C
ATOM	330	O	LYS A	27144.102	-5.577	-9.201	1.00	0.00	O
ATOM	331	CB	LYS A	27141.647	-4.954	-8.149	1.00	0.00	C
ATOM	332	CG	LYS A	27140.301	-4.761	-7.470	1.00	0.00	C
ATOM	333	CD	LYS A	27139.285	-5.786	-7.945	1.00	0.00	C
ATOM	334	CE	LYS A	27139.368	-7.071	-7.135	1.00	0.00	C
ATOM	335	NZ	LYS A	27138.350	-7.109	-6.048	1.00	0.00	N
ATOM	336	H	LYS A	27143.160	-3.766	-6.378	1.00	0.00	H

ATOM	337	HA	LYS A	27142.245	-6.501	-6.796	1.00	0.00	H
ATOM	338	1HB	LYS A	27142.021	-3.983	-8.443	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.499	-5.556	-9.034	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.429	-4.864	-6.403	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.933	-3.771	-7.698	1.00	0.00	H
ATOM	342	1HD	LYS A	27138.293	-5.372	-7.841	1.00	0.00	H
ATOM	343	2HD	LYS A	27139.475	-6.014	-8.984	1.00	0.00	H
ATOM	344	1HE	LYS A	27139.208	-7.909	-7.795	1.00	0.00	H
ATOM	345	2HE	LYS A	27140.353	-7.141	-6.697	1.00	0.00	H
ATOM	346	1HZ	LYS A	27137.554	-6.482	-6.282	1.00	0.00	H
ATOM	347	2HZ	LYS A	27138.772	-6.795	-5.152	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.992	-8.078	-5.928	1.00	0.00	H
ATOM	349	N	GLU A	28144.644	-7.034	-7.575	1.00	0.00	N
ATOM	350	CA	GLU A	28145.812	-7.553	-8.278	1.00	0.00	C
ATOM	351	C	GLU A	28145.714	-9.064	-8.456	1.00	0.00	C
ATOM	352	O	GLU A	28144.671	-9.664	-8.195	1.00	0.00	O
ATOM	353	CB	GLU A	28147.091	-7.198	-7.514	1.00	0.00	C
ATOM	354	CG	GLU A	28148.178	-6.601	-8.394	1.00	0.00	C
ATOM	355	CD	GLU A	28149.554	-7.148	-8.072	1.00	0.00	C
ATOM	356	OE1	GLU A	28150.418	-7.154	-8.976	1.00	0.00	O
ATOM	357	OE2	GLU A	28149.770	-7.572	-6.918	1.00	0.00	O
ATOM	358	H	GLU A	28144.417	-7.397	-6.694	1.00	0.00	H
ATOM	359	HA	GLU A	28145.846	-7.088	-9.252	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.849	-6.482	-6.743	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.483	-8.092	-7.052	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.952	-6.824	-9.426	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.190	-5.530	-8.252	1.00	0.00	H

ATOM	364	N	ASN A	29146.807	-9.675	-8.902	1.00	0.00	N
ATOM	365	CA	ASN A	29146.843	-11.117	-9.113	1.00	0.00	C
ATOM	366	C	ASN A	29146.916	-11.858	-7.781	1.00	0.00	C
ATOM	367	O	ASN A	29146.049	-12.673	-7.467	1.00	0.00	O
ATOM	368	CB	ASN A	29148.038	-11.495	-9.992	1.00	0.00	C
ATOM	369	CG	ASN A	29147.648	-11.689	-11.445	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.487	-12.817	-11.911	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.495	-10.586	-12.168	1.00	0.00	N
ATOM	372	H	ASN A	29147.608	-9.143	-9.092	1.00	0.00	H
ATOM	373	HA	ASN A	29145.932	-11.400	-9.619	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.778	-10.711	-9.939	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.468	-12.416	-9.627	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.640	-9.721	-11.730	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.244	-10.682	-13.110	1.00	0.00	H
ATOM	378	N	PRO A	30147.958	-11.585	-6.976	1.00	0.00	N
ATOM	379	CA	PRO A	30148.142	-12.228	-5.674	1.00	0.00	C
ATOM	380	C	PRO A	30147.254	-11.613	-4.593	1.00	0.00	C
ATOM	381	O	PRO A	30147.455	-10.466	-4.194	1.00	0.00	O
ATOM	382	CB	PRO A	30149.614	-11.962	-5.367	1.00	0.00	C
ATOM	383	CG	PRO A	30149.906	-10.665	-6.040	1.00	0.00	C
ATOM	384	CD	PRO A	30149.040	-10.624	-7.274	1.00	0.00	C
ATOM	385	HA	PRO A	30147.968	-13.291	-5.727	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.757	-11.895	-4.298	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.220	-12.760	-5.769	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.657	-9.846	-5.381	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.949	-10.622	-6.315	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.643	-9.631	-7.420	1.00	0.00	H

ATOM	391	2HD	PRO A	30149.604	-10.936	-8.140	1.00	0.00	H
ATOM	392	N	PRO A	31146.253	-12.366	-4.102	1.00	0.00	N
ATOM	393	CA	PRO A	31145.337	-11.880	-3.063	1.00	0.00	C
ATOM	394	C	PRO A	31146.064	-11.536	-1.768	1.00	0.00	C
ATOM	395	O	PRO A	31146.500	-12.422	-1.034	1.00	0.00	O
ATOM	396	CB	PRO A	31144.378	-13.056	-2.838	1.00	0.00	C
ATOM	397	CG	PRO A	31144.514	-13.909	-4.053	1.00	0.00	C
ATOM	398	CD	PRO A	31145.932	-13.743	-4.514	1.00	0.00	C
ATOM	399	HA	PRO A	31144.781	-11.018	-3.401	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.666	-13.593	-1.946	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.369	-12.685	-2.730	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.319	-14.940	-3.802	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.829	-13.571	-4.817	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.576	-14.455	-4.020	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.997	-13.849	-5.586	1.00	0.00	H
ATOM	406	N	PHE A	32146.191	-10.242	-1.492	1.00	0.00	N
ATOM	407	CA	PHE A	32146.864	-9.781	-0.283	1.00	0.00	C
ATOM	408	C	PHE A	32146.068	-8.670	0.395	1.00	0.00	C
ATOM	409	O	PHE A	32145.464	-7.831	-0.273	1.00	0.00	O
ATOM	410	CB	PHE A	32148.273	-9.285	-0.615	1.00	0.00	C
ATOM	411	CG	PHE A	32148.295	-8.133	-1.580	1.00	0.00	C
ATOM	412	CD1	PHE A	32147.870	-6.875	-1.187	1.00	0.00	C
ATOM	413	CD2	PHE A	32148.741	-8.311	-2.879	1.00	0.00	C
ATOM	414	CE1	PHE A	32147.889	-5.815	-2.073	1.00	0.00	C
ATOM	415	CE2	PHE A	32148.763	-7.254	-3.769	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.337	-6.004	-3.366	1.00	0.00	C
ATOM	417	H	PHE A	32145.822	-9.581	-2.115	1.00	0.00	H

ATOM	418	HA	PHE A	32146.938	-10.618	0.394	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.757	-8.964	0.295	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.839	-10.095	-1.050	1.00	0.00	H
ATOM	421	HD1	PHE A	32147.520	-6.724	-0.176	1.00	0.00	H
ATOM	422	HD2	PHE A	32149.076	-9.288	-3.196	1.00	0.00	H
ATOM	423	HE1	PHE A	32147.554	-4.838	-1.755	1.00	0.00	H
ATOM	424	HE2	PHE A	32149.113	-7.405	-4.780	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.352	-5.177	-4.059	1.00	0.00	H
ATOM	426	N	TYR A	33146.071	-8.673	1.724	1.00	0.00	N
ATOM	427	CA	TYR A	33145.349	-7.666	2.492	1.00	0.00	C
ATOM	428	C	TYR A	33146.315	-6.689	3.153	1.00	0.00	C
ATOM	429	O	TYR A	33147.406	-7.072	3.575	1.00	0.00	O
ATOM	430	CB	TYR A	33144.475	-8.335	3.555	1.00	0.00	C
ATOM	431	CG	TYR A	33143.212	-8.953	2.999	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.857	-10.258	3.318	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.375	-8.232	2.157	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.704	-10.828	2.811	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.220	-8.794	1.647	1.00	0.00	C
ATOM	436	CZ	TYR A	33140.888	-10.091	1.977	1.00	0.00	C
ATOM	437	OH	TYR A	33139.740	-10.655	1.473	1.00	0.00	O
ATOM	438	H	TYR A	33146.571	-9.369	2.199	1.00	0.00	H
ATOM	439	HA	TYR A	33144.715	-7.121	1.809	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.042	-9.116	4.037	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.188	-7.598	4.290	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.497	-10.832	3.971	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.637	-7.216	1.900	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.445	-11.844	3.070	1.00	0.00	H

ATOM	445	HE2	TYR A	33140.581	-8.217	0.994	1.00	0.00	H
ATOM	446	HH	TYR A	33139.799	-10.701	0.515	1.00	0.00	H
ATOM	447	N	GLY A	34145.909	-5.427	3.237	1.00	0.00	N
ATOM	448	CA	GLY A	34146.751	-4.416	3.848	1.00	0.00	C
ATOM	449	C	GLY A	34145.959	-3.219	4.337	1.00	0.00	C
ATOM	450	O	GLY A	34144.841	-2.978	3.884	1.00	0.00	O
ATOM	451	H	GLY A	34145.029	-5.181	2.883	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.273	-4.856	4.684	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.476	-4.081	3.121	1.00	0.00	H
ATOM	454	N	VAL A	35146.541	-2.468	5.266	1.00	0.00	N
ATOM	455	CA	VAL A	35145.884	-1.291	5.818	1.00	0.00	C
ATOM	456	C	VAL A	35146.524	-0.008	5.294	1.00	0.00	C
ATOM	457	O	VAL A	35147.743	0.072	5.144	1.00	0.00	O
ATOM	458	CB	VAL A	35145.936	-1.289	7.360	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.377	-1.253	7.849	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.140	-0.120	7.925	1.00	0.00	C
ATOM	461	H	VAL A	35147.434	-2.712	5.588	1.00	0.00	H
ATOM	462	HA	VAL A	35144.848	-1.314	5.514	1.00	0.00	H
ATOM	463	HB	VAL A	35145.486	-2.206	7.713	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.393	-1.031	8.905	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.920	-0.489	7.312	1.00	0.00	H
ATOM	466	3HG1	VAL A	35147.841	-2.213	7.675	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.771	0.491	7.115	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.777	0.476	8.563	1.00	0.00	H
ATOM	469	3HG2	VAL A	35144.307	-0.497	8.500	1.00	0.00	H
ATOM	470	N	ILE A	36145.694	0.991	5.016	1.00	0.00	N
ATOM	471	CA	ILE A	36146.181	2.269	4.508	1.00	0.00	C

ATOM	472	C	ILE A	36147.115	2.937	5.513	1.00	0.00	C
ATOM	473	O	ILE A	36146.824	2.986	6.708	1.00	0.00	O
ATOM	474	CB	ILE A	36145.017	3.229	4.186	1.00	0.00	C
ATOM	475	CG1	ILE A	36143.994	2.541	3.278	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.541	4.501	3.533	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.827	3.428	2.903	1.00	0.00	C
ATOM	478	H	ILE A	36144.733	0.868	5.157	1.00	0.00	H
ATOM	479	HA	ILE A	36146.727	2.079	3.596	1.00	0.00	H
ATOM	480	HB	ILE A	36144.538	3.502	5.114	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.482	2.233	2.367	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.601	1.671	3.784	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.386	4.447	2.465	1.00	0.00	H
ATOM	484	2HG2	ILE A	36146.597	4.602	3.738	1.00	0.00	H
ATOM	485	3HG2	ILE A	36145.013	5.354	3.931	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.347	3.036	2.018	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.183	4.428	2.706	1.00	0.00	H
ATOM	488	3HD1	ILE A	36142.116	3.452	3.716	1.00	0.00	H
ATOM	489	N	ARG A	37148.237	3.449	5.019	1.00	0.00	N
ATOM	490	CA	ARG A	37149.215	4.113	5.872	1.00	0.00	C
ATOM	491	C	ARG A	37149.395	5.571	5.462	1.00	0.00	C
ATOM	492	O	ARG A	37149.097	6.483	6.232	1.00	0.00	O
ATOM	493	CB	ARG A	37150.558	3.383	5.807	1.00	0.00	C
ATOM	494	CG	ARG A	37150.462	1.902	6.127	1.00	0.00	C
ATOM	495	CD	ARG A	37149.957	1.669	7.543	1.00	0.00	C
ATOM	496	NE	ARG A	37150.921	2.111	8.547	1.00	0.00	N
ATOM	497	CZ	ARG A	37150.615	2.326	9.825	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.373	2.142	10.257	1.00	0.00	N

ATOM	499	NH2	ARG A	37151.552	2.726	10.673	1.00	0.00	N
ATOM	500	H	ARG A	37148.412	3.377	4.057	1.00	0.00	H
ATOM	501	HA	ARG A	37148.847	4.080	6.887	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.964	3.489	4.811	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.237	3.839	6.513	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.779	1.436	5.432	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.441	1.457	6.027	1.00	0.00	H
ATOM	506	1HD	ARG A	37149.036	2.217	7.676	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.770	0.614	7.675	1.00	0.00	H
ATOM	508	HE	ARG A	37151.845	2.255	8.255	1.00	0.00	H
ATOM	509	1HH1	ARG A	37148.661	1.839	9.623	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.150	2.304	11.218	1.00	0.00	H
ATOM	511	1HH2	ARG A	37152.488	2.866	10.352	1.00	0.00	H
ATOM	512	2HH2	ARG A	37151.322	2.887	11.632	1.00	0.00	H
ATOM	513	N	TRP A	38149.882	5.784	4.244	1.00	0.00	N
ATOM	514	CA	TRP A	38150.100	7.132	3.733	1.00	0.00	C
ATOM	515	C	TRP A	38149.375	7.336	2.406	1.00	0.00	C
ATOM	516	O	TRP A	38149.482	6.516	1.495	1.00	0.00	O
ATOM	517	CB	TRP A	38151.599	7.402	3.559	1.00	0.00	C
ATOM	518	CG	TRP A	38151.898	8.654	2.788	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.099	9.904	3.297	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.022	8.774	1.366	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.341	10.795	2.279	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.299	10.126	1.084	1.00	0.00	C
ATOM	523	CE3	TRP A	38151.926	7.871	0.304	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.481	10.593	-0.216	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.107	8.335	-0.985	1.00	0.00	C

ATOM	526	CH2	TRP A	38152.381	9.685	-1.236	1.00	0.00	C
ATOM	527	H	TRP A	38150.101	5.016	3.675	1.00	0.00	H
ATOM	528	HA	TRP A	38149.700	7.828	4.456	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.056	7.494	4.533	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.049	6.571	3.035	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.068	10.144	4.350	1.00	0.00	H
ATOM	532	HE1	TRP A	38152.516	11.753	2.391	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.715	6.827	0.477	1.00	0.00	H
ATOM	534	HZ2	TRP A	38152.690	11.631	-0.427	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.037	7.652	-1.818	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.516	10.004	-2.259	1.00	0.00	H
ATOM	537	N	ILE A	39148.646	8.442	2.303	1.00	0.00	N
ATOM	538	CA	ILE A	39147.911	8.766	1.088	1.00	0.00	C
ATOM	539	C	ILE A	39148.340	10.125	0.546	1.00	0.00	C
ATOM	540	O	ILE A	39147.988	11.165	1.104	1.00	0.00	O
ATOM	541	CB	ILE A	39146.391	8.780	1.335	1.00	0.00	C
ATOM	542	CG1	ILE A	39145.961	7.521	2.089	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.640	8.896	0.016	1.00	0.00	C
ATOM	544	CD1	ILE A	39144.572	7.613	2.680	1.00	0.00	C
ATOM	545	H	ILE A	39148.608	9.060	3.063	1.00	0.00	H
ATOM	546	HA	ILE A	39148.130	8.008	0.350	1.00	0.00	H
ATOM	547	HB	ILE A	39146.153	9.647	1.932	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.977	6.680	1.411	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.656	7.338	2.897	1.00	0.00	H
ATOM	550	1HG2	ILE A	39144.577	8.847	0.202	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.930	8.085	-0.636	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.880	9.839	-0.453	1.00	0.00	H

ATOM	553	1HD1	ILE A	39143.973	8.287	2.086	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.635	7.984	3.692	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.116	6.634	2.682	1.00	0.00	H
ATOM	556	N	GLY A	40149.108	10.112	-0.539	1.00	0.00	N
ATOM	557	CA	GLY A	40149.576	11.353	-1.126	1.00	0.00	C
ATOM	558	C	GLY A	40150.128	11.169	-2.526	1.00	0.00	C
ATOM	559	O	GLY A	40149.973	10.107	-3.129	1.00	0.00	O
ATOM	560	H	GLY A	40149.362	9.254	-0.940	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.755	12.052	-1.165	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.351	11.763	-0.498	1.00	0.00	H
ATOM	563	N	GLN A	41150.772	12.210	-3.042	1.00	0.00	N
ATOM	564	CA	GLN A	41151.352	12.170	-4.378	1.00	0.00	C
ATOM	565	C	GLN A	41152.824	12.581	-4.341	1.00	0.00	C
ATOM	566	O	GLN A	41153.146	13.724	-4.012	1.00	0.00	O
ATOM	567	CB	GLN A	41150.574	13.098	-5.310	1.00	0.00	C
ATOM	568	CG	GLN A	41149.068	12.908	-5.240	1.00	0.00	C
ATOM	569	CD	GLN A	41148.312	14.221	-5.293	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.274	14.968	-4.315	1.00	0.00	O
ATOM	571	NE2	GLN A	41147.705	14.509	-6.437	1.00	0.00	N
ATOM	572	H	GLN A	41150.861	13.027	-2.510	1.00	0.00	H
ATOM	573	HA	GLN A	41151.277	11.159	-4.745	1.00	0.00	H
ATOM	574	1HB	GLN A	41150.798	14.121	-5.048	1.00	0.00	H
ATOM	575	2HB	GLN A	41150.892	12.919	-6.325	1.00	0.00	H
ATOM	576	1HG	GLN A	41148.754	12.298	-6.074	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.824	12.406	-4.316	1.00	0.00	H
ATOM	578	1HE2	GLN A	41147.778	13.866	-7.174	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.211	15.351	-6.500	1.00	0.00	H

ATOM	580	N	PRO A	42153.742	11.656	-4.675	1.00	0.00	N
ATOM	581	CA	PRO A	42155.181	11.939	-4.673	1.00	0.00	C
ATOM	582	C	PRO A	42155.542	13.108	-5.584	1.00	0.00	C
ATOM	583	O	PRO A	42154.782	13.461	-6.486	1.00	0.00	O
ATOM	584	CB	PRO A	42155.808	10.641	-5.194	1.00	0.00	C
ATOM	585	CG	PRO A	42154.786	9.590	-4.928	1.00	0.00	C
ATOM	586	CD	PRO A	42153.455	10.268	-5.079	1.00	0.00	C
ATOM	587	HA	PRO A	42155.542	12.139	-3.674	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.012	10.737	-6.250	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.725	10.442	-4.661	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.883	8.791	-5.647	1.00	0.00	H
ATOM	591	2HG	PRO A	42154.901	9.210	-3.923	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.124	10.226	-6.107	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.724	9.819	-4.424	1.00	0.00	H
ATOM	594	N	PRO A	43156.714	13.726	-5.360	1.00	0.00	N
ATOM	595	CA	PRO A	43157.174	14.860	-6.166	1.00	0.00	C
ATOM	596	C	PRO A	43157.596	14.441	-7.569	1.00	0.00	C
ATOM	597	O	PRO A	43158.768	14.155	-7.816	1.00	0.00	O
ATOM	598	CB	PRO A	43158.377	15.386	-5.384	1.00	0.00	C
ATOM	599	CG	PRO A	43158.887	14.204	-4.634	1.00	0.00	C
ATOM	600	CD	PRO A	43157.681	13.366	-4.305	1.00	0.00	C
ATOM	601	HA	PRO A	43156.419	15.630	-6.233	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.117	15.767	-6.073	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.061	16.171	-4.714	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.573	13.646	-5.253	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.376	14.528	-3.728	1.00	0.00	H
ATOM	606	1HD	PRO A	43157.928	12.316	-4.350	1.00	0.00	H

ATOM	607	2HD	PRO A	43157.298	13.624	-3.329	1.00	0.00	H
ATOM	608	N	GLY A	44156.635	14.406	-8.486	1.00	0.00	N
ATOM	609	CA	GLY A	44156.931	14.021	-9.852	1.00	0.00	C
ATOM	610	C	GLY A	44155.710	13.511	-10.590	1.00	0.00	C
ATOM	611	O	GLY A	44155.412	13.962	-11.696	1.00	0.00	O
ATOM	612	H	GLY A	44155.719	14.645	-8.232	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.323	14.877	-10.378	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.681	13.245	-9.840	1.00	0.00	H
ATOM	615	N	LEU A	45155.002	12.568	-9.979	1.00	0.00	N
ATOM	616	CA	LEU A	45153.807	11.996	-10.589	1.00	0.00	C
ATOM	617	C	LEU A	45152.592	12.203	-9.694	1.00	0.00	C
ATOM	618	O	LEU A	45152.501	11.623	-8.612	1.00	0.00	O
ATOM	619	CB	LEU A	45154.011	10.504	-10.858	1.00	0.00	C
ATOM	620	CG	LEU A	45154.560	9.704	-9.674	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.219	8.227	-9.821	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.066	9.899	-9.551	1.00	0.00	C
ATOM	623	H	LEU A	45155.289	12.247	-9.096	1.00	0.00	H
ATOM	624	HA	LEU A	45153.640	12.503	-11.528	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.060	10.079	-11.144	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.698	10.399	-11.684	1.00	0.00	H
ATOM	627	HG	LEU A	45154.101	10.062	-8.764	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.622	8.081	-10.710	1.00	0.00	H
ATOM	629	2HD1	LEU A	45153.661	7.900	-8.956	1.00	0.00	H
ATOM	630	3HD1	LEU A	45155.130	7.652	-9.900	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.572	8.983	-9.824	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.312	10.155	-8.530	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.383	10.694	-10.208	1.00	0.00	H

ATOM	634	N	ASN A	46151.656	13.030	-10.149	1.00	0.00	N
ATOM	635	CA	ASN A	46150.449	13.299	-9.377	1.00	0.00	C
ATOM	636	C	ASN A	46149.512	12.098	-9.414	1.00	0.00	C
ATOM	637	O	ASN A	46148.893	11.810	-10.438	1.00	0.00	O
ATOM	638	CB	ASN A	46149.736	14.537	-9.925	1.00	0.00	C
ATOM	639	CG	ASN A	46148.974	15.289	-8.852	1.00	0.00	C
ATOM	640	OD1	ASN A	46147.746	15.375	-8.891	1.00	0.00	O
ATOM	641	ND2	ASN A	46149.700	15.838	-7.884	1.00	0.00	N
ATOM	642	H	ASN A	46151.778	13.465	-11.018	1.00	0.00	H
ATOM	643	HA	ASN A	46150.742	13.484	-8.355	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.466	15.205	-10.356	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.038	14.232	-10.691	1.00	0.00	H
ATOM	646	1HD2	ASN A	46150.673	15.727	-7.917	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.233	16.329	-7.178	1.00	0.00	H
ATOM	648	N	GLU A	47149.415	11.401	-8.288	1.00	0.00	N
ATOM	649	CA	GLU A	47148.555	10.230	-8.183	1.00	0.00	C
ATOM	650	C	GLU A	47148.375	9.820	-6.726	1.00	0.00	C
ATOM	651	O	GLU A	47149.348	9.519	-6.034	1.00	0.00	O
ATOM	652	CB	GLU A	47149.138	9.063	-8.985	1.00	0.00	C
ATOM	653	CG	GLU A	47150.653	8.959	-8.902	1.00	0.00	C
ATOM	654	CD	GLU A	47151.235	8.068	-9.981	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.350	8.531	-11.134	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.575	6.905	-9.672	1.00	0.00	O
ATOM	657	H	GLU A	47149.935	11.682	-7.507	1.00	0.00	H
ATOM	658	HA	GLU A	47147.590	10.490	-8.592	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.715	8.141	-8.616	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.864	9.183	-10.022	1.00	0.00	H

ATOM	661	1HG	GLU A	47151.075	9.946	-9.006	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.922	8.554	-7.937	1.00	0.00	H
ATOM	663	N	VAL A	48147.130	9.802	-6.264	1.00	0.00	N
ATOM	664	CA	VAL A	48146.839	9.420	-4.889	1.00	0.00	C
ATOM	665	C	VAL A	48147.232	7.969	-4.639	1.00	0.00	C
ATOM	666	O	VAL A	48146.502	7.047	-5.001	1.00	0.00	O
ATOM	667	CB	VAL A	48145.346	9.605	-4.557	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.100	9.395	-3.071	1.00	0.00	C
ATOM	669	CG2	VAL A	48144.867	10.980	-4.996	1.00	0.00	C
ATOM	670	H	VAL A	48146.393	10.047	-6.862	1.00	0.00	H
ATOM	671	HA	VAL A	48147.417	10.058	-4.236	1.00	0.00	H
ATOM	672	HB	VAL A	48144.783	8.860	-5.100	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.082	9.666	-2.834	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.780	10.014	-2.503	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.265	8.358	-2.821	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.704	11.662	-5.017	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.125	11.342	-4.301	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.433	10.912	-5.983	1.00	0.00	H
ATOM	679	N	LEU A	49148.392	7.774	-4.021	1.00	0.00	N
ATOM	680	CA	LEU A	49148.884	6.434	-3.727	1.00	0.00	C
ATOM	681	C	LEU A	49148.782	6.135	-2.237	1.00	0.00	C
ATOM	682	O	LEU A	49149.437	6.780	-1.418	1.00	0.00	O
ATOM	683	CB	LEU A	49150.333	6.286	-4.190	1.00	0.00	C
ATOM	684	CG	LEU A	49150.544	6.396	-5.702	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.921	6.965	-6.009	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.367	5.038	-6.363	1.00	0.00	C
ATOM	687	H	LEU A	49148.932	8.549	-3.758	1.00	0.00	H

ATOM	688	HA	LEU A	49148.269	5.729	-4.266	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.924	7.053	-3.709	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.696	5.322	-3.869	1.00	0.00	H
ATOM	691	HG	LEU A	49149.806	7.068	-6.114	1.00	0.00	H
ATOM	692	1HD1	LEU A	49151.845	8.033	-6.150	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.306	6.509	-6.908	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.588	6.757	-5.186	1.00	0.00	H
ATOM	695	1HD2	LEU A	49151.056	4.331	-5.924	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.566	5.123	-7.421	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.354	4.694	-6.214	1.00	0.00	H
ATOM	698	N	ALA A	50147.954	5.157	-1.890	1.00	0.00	N
ATOM	699	CA	ALA A	50147.767	4.778	-0.498	1.00	0.00	C
ATOM	700	C	ALA A	50148.728	3.663	-0.099	1.00	0.00	C
ATOM	701	O	ALA A	50148.645	2.546	-0.611	1.00	0.00	O
ATOM	702	CB	ALA A	50146.329	4.352	-0.254	1.00	0.00	C
ATOM	703	H	ALA A	50147.457	4.680	-2.588	1.00	0.00	H
ATOM	704	HA	ALA A	50147.968	5.649	0.110	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.304	3.578	0.500	1.00	0.00	H
ATOM	706	2HB	ALA A	50145.905	3.973	-1.172	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.753	5.201	0.084	1.00	0.00	H
ATOM	708	N	GLY A	51149.639	3.971	0.818	1.00	0.00	N
ATOM	709	CA	GLY A	51150.601	2.984	1.269	1.00	0.00	C
ATOM	710	C	GLY A	51149.968	1.910	2.133	1.00	0.00	C
ATOM	711	O	GLY A	51149.673	2.142	3.305	1.00	0.00	O
ATOM	712	H	GLY A	51149.657	4.877	1.191	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.053	2.516	0.406	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.371	3.482	1.839	1.00	0.00	H

ATOM	715	N	LEU A	52149.760	0.733	1.554	1.00	0.00	N
ATOM	716	CA	LEU A	52149.158	-0.379	2.279	1.00	0.00	C
ATOM	717	C	LEU A	52150.226	-1.227	2.962	1.00	0.00	C
ATOM	718	O	LEU A	52151.311	-1.435	2.418	1.00	0.00	O
ATOM	719	CB	LEU A	52148.331	-1.247	1.329	1.00	0.00	C
ATOM	720	CG	LEU A	52147.092	-0.567	0.742	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.492	-1.417	-0.367	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.064	-0.305	1.832	1.00	0.00	C
ATOM	723	H	LEU A	52150.018	0.609	0.617	1.00	0.00	H
ATOM	724	HA	LEU A	52148.505	0.033	3.035	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.968	-1.558	0.513	1.00	0.00	H
ATOM	726	2HB	LEU A	52148.010	-2.127	1.866	1.00	0.00	H
ATOM	727	HG	LEU A	52147.380	0.383	0.317	1.00	0.00	H
ATOM	728	1HD1	LEU A	52146.896	-1.104	-1.319	1.00	0.00	H
ATOM	729	2HD1	LEU A	52145.420	-1.294	-0.374	1.00	0.00	H
ATOM	730	3HD1	LEU A	52146.736	-2.456	-0.197	1.00	0.00	H
ATOM	731	1HD2	LEU A	52146.171	-1.044	2.613	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.071	-0.367	1.412	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.220	0.680	2.245	1.00	0.00	H
ATOM	734	N	GLU A	53149.911	-1.716	4.157	1.00	0.00	N
ATOM	735	CA	GLU A	53150.842	-2.542	4.916	1.00	0.00	C
ATOM	736	C	GLU A	53150.337	-3.977	5.018	1.00	0.00	C
ATOM	737	O	GLU A	53149.366	-4.256	5.720	1.00	0.00	O
ATOM	738	CB	GLU A	53151.049	-1.961	6.316	1.00	0.00	C
ATOM	739	CG	GLU A	53152.034	-2.750	7.163	1.00	0.00	C
ATOM	740	CD	GLU A	53151.587	-2.881	8.606	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.298	-2.368	9.497	1.00	0.00	O

ATOM	742	OE2	GLU A	53150.528	-3.497	8.845	1.00	0.00	O
ATOM	743	H	GLU A	53149.031	-1.515	4.539	1.00	0.00	H
ATOM	744	HA	GLU A	53151.787	-2.541	4.393	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.416	-0.950	6.224	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.099	-1.944	6.830	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.138	-3.739	6.743	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.990	-2.248	7.141	1.00	0.00	H
ATOM	749	N	LEU A	54151.003	-4.885	4.310	1.00	0.00	N
ATOM	750	CA	LEU A	54150.620	-6.292	4.319	1.00	0.00	C
ATOM	751	C	LEU A	54150.836	-6.904	5.700	1.00	0.00	C
ATOM	752	O	LEU A	54151.871	-6.692	6.329	1.00	0.00	O
ATOM	753	CB	LEU A	54151.423	-7.067	3.273	1.00	0.00	C
ATOM	754	CG	LEU A	54151.413	-6.460	1.869	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.554	-7.023	1.036	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.076	-6.717	1.189	1.00	0.00	C
ATOM	757	H	LEU A	54151.769	-4.601	3.768	1.00	0.00	H
ATOM	758	HA	LEU A	54149.571	-6.352	4.072	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.448	-7.128	3.610	1.00	0.00	H
ATOM	760	2HB	LEU A	54151.022	-8.068	3.211	1.00	0.00	H
ATOM	761	HG	LEU A	54151.551	-5.392	1.944	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.684	-8.071	1.266	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.463	-6.489	1.263	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.323	-6.911	-0.013	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.629	-7.612	1.599	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.230	-6.846	0.128	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.419	-5.877	1.357	1.00	0.00	H
ATOM	768	N	GLU A	55149.850	-7.665	6.164	1.00	0.00	N

ATOM	769	CA	GLU A	55149.930	-8.310	7.469	1.00	0.00 C
ATOM	770	C	GLU A	55151.044	-9.351	7.494	1.00	0.00 C
ATOM	771	O	GLU A	55151.685	-9.565	8.524	1.00	0.00 O
ATOM	772	CB	GLU A	55148.594	-8.967	7.822	1.00	0.00 C
ATOM	773	CG	GLU A	55147.552	-7.987	8.337	1.00	0.00 C
ATOM	774	CD	GLU A	55146.137	-8.398	7.975	1.00	0.00 C
ATOM	775	OE1	GLU A	55145.968	-9.127	6.975	1.00	0.00 O
ATOM	776	OE2	GLU A	55145.200	-7.990	8.692	1.00	0.00 O
ATOM	777	H	GLU A	55149.048	-7.797	5.615	1.00	0.00 H
ATOM	778	HA	GLU A	55150.150	-7.547	8.202	1.00	0.00 H
ATOM	779	1HB	GLU A	55148.199	-9.448	6.939	1.00	0.00 H
ATOM	780	2HB	GLU A	55148.763	-9.712	8.584	1.00	0.00 H
ATOM	781	1HG	GLU A	55147.630	-7.930	9.412	1.00	0.00 H
ATOM	782	2HG	GLU A	55147.749	-7.015	7.910	1.00	0.00 H
ATOM	783	N	ASP A	56151.269	-9.997	6.356	1.00	0.00 N
ATOM	784	CA	ASP A	56152.306	-11.017	6.248	1.00	0.00 C
ATOM	785	C	ASP A	56153.580	-10.435	5.642	1.00	0.00 C
ATOM	786	O	ASP A	56153.529	-9.483	4.864	1.00	0.00 O
ATOM	787	CB	ASP A	56151.812	-12.189	5.397	1.00	0.00 C
ATOM	788	CG	ASP A	56150.930	-13.140	6.180	1.00	0.00 C
ATOM	789	OD1	ASP A	56149.691	-13.034	6.064	1.00	0.00 O
ATOM	790	OD2	ASP A	56151.478	-13.993	6.910	1.00	0.00 O
ATOM	791	H	ASP A	56150.725	-9.784	5.569	1.00	0.00 H
ATOM	792	HA	ASP A	56152.526	-11.374	7.243	1.00	0.00 H
ATOM	793	1HB	ASP A	56151.244	-11.805	4.563	1.00	0.00 H
ATOM	794	2HB	ASP A	56152.664	-12.739	5.024	1.00	0.00 H
ATOM	795	N	GLU A	57154.719	-11.014	6.006	1.00	0.00 N

ATOM	796	CA	GLU A	57156.006	-10.552	5.498	1.00	0.00	C
ATOM	797	C	GLU A	57156.353	-11.245	4.184	1.00	0.00	C
ATOM	798	O	GLU A	57156.738	-12.414	4.170	1.00	0.00	O
ATOM	799	CB	GLU A	57157.107	-10.810	6.529	1.00	0.00	C
ATOM	800	CG	GLU A	57157.130	-9.795	7.660	1.00	0.00	C
ATOM	801	CD	GLU A	57158.393	-9.882	8.496	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.992	-10.976	8.553	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.782	-8.856	9.092	1.00	0.00	O
ATOM	804	H	GLU A	57154.694	-11.769	6.630	1.00	0.00	H
ATOM	805	HA	GLU A	57155.932	-9.490	5.323	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.960	-11.791	6.958	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.064	-10.784	6.031	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.065	-8.803	7.238	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.278	-9.969	8.301	1.00	0.00	H
ATOM	810	N	CYS A	58156.214	-10.515	3.082	1.00	0.00	N
ATOM	811	CA	CYS A	58156.513	-11.058	1.762	1.00	0.00	C
ATOM	812	C	CYS A	58157.824	-10.492	1.225	1.00	0.00	C
ATOM	813	O	CYS A	58157.973	-9.279	1.077	1.00	0.00	O
ATOM	814	CB	CYS A	58155.374	-10.750	0.790	1.00	0.00	C
ATOM	815	SG	CYS A	58155.604	-11.445	-0.862	1.00	0.00	S
ATOM	816	H	CYS A	58155.904	-9.589	3.158	1.00	0.00	H
ATOM	817	HA	CYS A	58156.612	-12.129	1.860	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.453	-11.150	1.188	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.279	-9.678	0.687	1.00	0.00	H
ATOM	820	HG	CYS A	58156.540	-11.627	-0.979	1.00	0.00	H
ATOM	821	N	ALAA	59158.770	-11.378	0.933	1.00	0.00	N
ATOM	822	CA	ALAA	59160.067	-10.966	0.411	1.00	0.00	C

ATOM	823	C	ALAA	59159.915	-10.208	-0.903	1.00	0.00	C
ATOM	824	O	ALAA	59159.155	-10.615	-1.782	1.00	0.00	O
ATOM	825	CB	ALAA	59160.968	-12.177	0.223	1.00	0.00	C
ATOM	826	H	ALAA	59158.592	-12.331	1.071	1.00	0.00	H
ATOM	827	HA	ALAA	59160.528	-10.315	1.140	1.00	0.00	H
ATOM	828	1HB	ALAA	59160.734	-12.921	0.969	1.00	0.00	H
ATOM	829	2HB	ALAA	59162.001	-11.877	0.326	1.00	0.00	H
ATOM	830	3HB	ALAA	59160.811	-12.593	-0.762	1.00	0.00	H
ATOM	831	N	GLY A	60160.643	-9.103	-1.031	1.00	0.00	N
ATOM	832	CA	GLY A	60160.574	-8.305	-2.241	1.00	0.00	C
ATOM	833	C	GLY A	60160.044	-6.908	-1.985	1.00	0.00	C
ATOM	834	O	GLY A	60160.381	-5.967	-2.703	1.00	0.00	O
ATOM	835	H	GLY A	60161.231	-8.827	-0.298	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.564	-8.229	-2.666	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.927	-8.799	-2.951	1.00	0.00	H
ATOM	838	N	CYS A	61159.210	-6.773	-0.959	1.00	0.00	N
ATOM	839	CA	CYS A	61158.631	-5.480	-0.610	1.00	0.00	C
ATOM	840	C	CYS A	61159.598	-4.662	0.240	1.00	0.00	C
ATOM	841	O	CYS A	61160.705	-5.109	0.542	1.00	0.00	O
ATOM	842	CB	CYS A	61157.314	-5.675	0.143	1.00	0.00	C
ATOM	843	SG	CYS A	61156.183	-6.848	-0.641	1.00	0.00	S
ATOM	844	H	CYS A	61158.978	-7.560	-0.424	1.00	0.00	H
ATOM	845	HA	CYS A	61158.435	-4.946	-1.527	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.525	-6.040	1.137	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.804	-4.725	0.215	1.00	0.00	H
ATOM	848	HG	CYS A	61156.528	-7.057	-1.512	1.00	0.00	H
ATOM	849	N	THR A	62159.174	-3.462	0.620	1.00	0.00	N

ATOM	850	CA	THR A	62160.003	-2.581	1.435	1.00	0.00	C
ATOM	851	C	THR A	62159.434	-2.448	2.844	1.00	0.00	C
ATOM	852	O	THR A	62158.454	-3.106	3.192	1.00	0.00	O
ATOM	853	CB	THR A	62160.110	-1.201	0.784	1.00	0.00	C
ATOM	854	OG1	THR A	62158.839	-0.580	0.714	1.00	0.00	O
ATOM	855	CG2	THR A	62160.677	-1.243	-0.618	1.00	0.00	C
ATOM	856	H	THR A	62158.283	-3.161	0.347	1.00	0.00	H
ATOM	857	HA	THR A	62160.989	-3.017	1.497	1.00	0.00	H
ATOM	858	HB	THR A	62160.758	-0.580	1.385	1.00	0.00	H
ATOM	859	HG1	THR A	62158.243	-1.125	0.195	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.591	-2.245	-1.011	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.718	-0.954	-0.595	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.128	-0.561	-1.250	1.00	0.00	H
ATOM	863	N	ASP A	63160.056	-1.594	3.649	1.00	0.00	N
ATOM	864	CA	ASP A	63159.612	-1.375	5.021	1.00	0.00	C
ATOM	865	C	ASP A	63158.866	-0.050	5.147	1.00	0.00	C
ATOM	866	O	ASP A	63158.935	0.616	6.180	1.00	0.00	O
ATOM	867	CB	ASP A	63160.806	-1.393	5.976	1.00	0.00	C
ATOM	868	CG	ASP A	63161.904	-0.439	5.547	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.936	-0.917	5.028	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.732	0.784	5.729	1.00	0.00	O
ATOM	871	H	ASP A	63160.832	-1.098	3.314	1.00	0.00	H
ATOM	872	HA	ASP A	63158.940	-2.178	5.284	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.475	-1.110	6.963	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.216	-2.393	6.011	1.00	0.00	H
ATOM	875	N	GLY A	64158.156	0.325	4.089	1.00	0.00	N
ATOM	876	CA	GLY A	64157.408	1.569	4.101	1.00	0.00	C

ATOM	877	C	GLY A	64158.144	2.695	3.402	1.00	0.00	C
ATOM	878	O	GLY A	64158.130	3.836	3.864	1.00	0.00	O
ATOM	879	H	GLY A	64158.138	-0.246	3.293	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.460	1.412	3.608	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.225	1.856	5.126	1.00	0.00	H
ATOM	882	N	THR A	65158.787	2.375	2.284	1.00	0.00	N
ATOM	883	CA	THR A	65159.532	3.367	1.519	1.00	0.00	C
ATOM	884	C	THR A	65159.121	3.343	0.051	1.00	0.00	C
ATOM	885	O	THR A	65159.276	2.330	-0.631	1.00	0.00	O
ATOM	886	CB	THR A	65161.036	3.116	1.644	1.00	0.00	C
ATOM	887	OG1	THR A	65161.300	1.733	1.811	1.00	0.00	O
ATOM	888	CG2	THR A	65161.670	3.849	2.806	1.00	0.00	C
ATOM	889	H	THR A	65158.760	1.448	1.967	1.00	0.00	H
ATOM	890	HA	THR A	65159.304	4.341	1.929	1.00	0.00	H
ATOM	891	HB	THR A	65161.522	3.447	0.738	1.00	0.00	H
ATOM	892	HG1	THR A	65161.736	1.394	1.027	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.388	3.369	3.731	1.00	0.00	H
ATOM	894	2HG2	THR A	65161.331	4.874	2.813	1.00	0.00	H
ATOM	895	3HG2	THR A	65162.745	3.826	2.702	1.00	0.00	H
ATOM	896	N	PHE A	66158.597	4.466	-0.431	1.00	0.00	N
ATOM	897	CA	PHE A	66158.164	4.572	-1.819	1.00	0.00	C
ATOM	898	C	PHE A	66159.235	5.243	-2.672	1.00	0.00	C
ATOM	899	O	PHE A	66159.380	6.465	-2.657	1.00	0.00	O
ATOM	900	CB	PHE A	66156.857	5.362	-1.909	1.00	0.00	C
ATOM	901	CG	PHE A	66156.098	5.124	-3.184	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.827	3.835	-3.613	1.00	0.00	C
ATOM	903	CD2	PHE A	66155.657	6.190	-3.951	1.00	0.00	C

ATOM	904	CE1 PHE A	66155.130	3.613	-4.786	1.00	0.00	C
ATOM	905	CE2 PHE A	66154.959	5.974	-5.125	1.00	0.00	C
ATOM	906	CZ PHE A	66154.695	4.684	-5.542	1.00	0.00	C
ATOM	907	H PHE A	66158.499	5.240	0.162	1.00	0.00	H
ATOM	908	HA PHE A	66157.997	3.574	-2.192	1.00	0.00	H
ATOM	909	1HB PHE A	66156.218	5.082	-1.085	1.00	0.00	H
ATOM	910	2HB PHE A	66157.078	6.417	-1.844	1.00	0.00	H
ATOM	911	HD1 PHE A	66156.166	2.997	-3.022	1.00	0.00	H
ATOM	912	HD2 PHE A	66155.863	7.198	-3.626	1.00	0.00	H
ATOM	913	HE1 PHE A	66154.926	2.603	-5.111	1.00	0.00	H
ATOM	914	HE2 PHE A	66154.621	6.812	-5.715	1.00	0.00	H
ATOM	915	HZ PHE A	66154.150	4.514	-6.459	1.00	0.00	H
ATOM	916	N ARG A	67159.983	4.435	-3.417	1.00	0.00	N
ATOM	917	CA ARG A	67161.042	4.949	-4.278	1.00	0.00	C
ATOM	918	C ARG A	67162.083	5.713	-3.465	1.00	0.00	C
ATOM	919	O ARG A	67162.723	6.636	-3.969	1.00	0.00	O
ATOM	920	CB ARG A	67160.453	5.860	-5.357	1.00	0.00	C
ATOM	921	CG ARG A	67159.223	5.281	-6.038	1.00	0.00	C
ATOM	922	CD ARG A	67158.382	6.368	-6.687	1.00	0.00	C
ATOM	923	NE ARG A	67157.338	5.813	-7.546	1.00	0.00	N
ATOM	924	CZ ARG A	67157.567	5.297	-8.752	1.00	0.00	C
ATOM	925	NH1 ARG A	67158.799	5.263	-9.244	1.00	0.00	N
ATOM	926	NH2 ARG A	67156.561	4.814	-9.466	1.00	0.00	N
ATOM	927	H ARG A	67159.819	3.469	-3.387	1.00	0.00	H
ATOM	928	HA ARG A	67161.521	4.107	-4.753	1.00	0.00	H
ATOM	929	1HB ARG A	67160.177	6.802	-4.906	1.00	0.00	H
ATOM	930	2HB ARG A	67161.205	6.037	-6.112	1.00	0.00	H

ATOM	931	1HG	ARG A	67159.539	4.582	-6.797	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.623	4.768	-5.300	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.919	6.959	-5.910	1.00	0.00	H
ATOM	934	2HD	ARG A	67159.027	6.998	-7.281	1.00	0.00	H
ATOM	935	HE	ARG A	67156.419	5.826	-7.206	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.562	5.625	-8.709	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.964	4.873	-10.149	1.00	0.00	H
ATOM	938	1HH2	ARG A	67155.630	4.837	-9.101	1.00	0.00	H
ATOM	939	2HH2	ARG A	67156.731	4.426	-10.372	1.00	0.00	H
ATOM	940	N	GLY A	68162.246	5.323	-2.205	1.00	0.00	N
ATOM	941	CA	GLY A	68163.211	5.983	-1.344	1.00	0.00	C
ATOM	942	C	GLY A	68162.572	7.006	-0.425	1.00	0.00	C
ATOM	943	O	GLY A	68163.149	7.375	0.598	1.00	0.00	O
ATOM	944	H	GLY A	68161.708	4.581	-1.856	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.709	5.237	-0.743	1.00	0.00	H
ATOM	946	2HA	GLY A	68163.946	6.480	-1.961	1.00	0.00	H
ATOM	947	N	THR A	69161.378	7.467	-0.787	1.00	0.00	N
ATOM	948	CA	THR A	69160.666	8.455	0.015	1.00	0.00	C
ATOM	949	C	THR A	69159.834	7.778	1.100	1.00	0.00	C
ATOM	950	O	THR A	69158.714	7.331	0.851	1.00	0.00	O
ATOM	951	CB	THR A	69159.763	9.310	-0.875	1.00	0.00	C
ATOM	952	OG1	THR A	69160.491	9.830	-1.974	1.00	0.00	O
ATOM	953	CG2	THR A	69159.137	10.479	-0.146	1.00	0.00	C
ATOM	954	H	THR A	69160.967	7.138	-1.614	1.00	0.00	H
ATOM	955	HA	THR A	69161.399	9.091	0.486	1.00	0.00	H
ATOM	956	HB	THR A	69158.964	8.693	-1.259	1.00	0.00	H
ATOM	957	HG1	THR A	69161.267	10.293	-1.655	1.00	0.00	H

ATOM	958	1HG2 THR A	69158.646	11.126	-0.857	1.00	0.00	H
ATOM	959	2HG2 THR A	69159.906	11.033	0.374	1.00	0.00	H
ATOM	960	3HG2 THR A	69158.413	10.113	0.567	1.00	0.00	H
ATOM	961	N ARG A	70160.389	7.706	2.306	1.00	0.00	N
ATOM	962	CA ARG A	70159.699	7.084	3.429	1.00	0.00	C
ATOM	963	C ARG A	70158.562	7.971	3.925	1.00	0.00	C
ATOM	964	O ARG A	70158.773	9.132	4.275	1.00	0.00	O
ATOM	965	CB ARG A	70160.680	6.807	4.569	1.00	0.00	C
ATOM	966	CG ARG A	70160.151	5.828	5.603	1.00	0.00	C
ATOM	967	CD ARG A	70160.885	5.964	6.927	1.00	0.00	C
ATOM	968	NE ARG A	70162.332	5.847	6.766	1.00	0.00	N
ATOM	969	CZ ARG A	70163.172	5.583	7.765	1.00	0.00	C
ATOM	970	NH1 ARG A	70162.711	5.408	8.998	1.00	0.00	N
ATOM	971	NH2 ARG A	70164.473	5.494	7.532	1.00	0.00	N
ATOM	972	H ARG A	70161.285	8.080	2.443	1.00	0.00	H
ATOM	973	HA ARG A	70159.286	6.147	3.086	1.00	0.00	H
ATOM	974	1HB ARG A	70161.592	6.402	4.154	1.00	0.00	H
ATOM	975	2HB ARG A	70160.906	7.738	5.069	1.00	0.00	H
ATOM	976	1HG ARG A	70159.102	6.021	5.764	1.00	0.00	H
ATOM	977	2HG ARG A	70160.282	4.821	5.232	1.00	0.00	H
ATOM	978	1HD ARG A	70160.658	6.931	7.352	1.00	0.00	H
ATOM	979	2HD ARG A	70160.543	5.189	7.596	1.00	0.00	H
ATOM	980	HE ARG A	70162.699	5.971	5.866	1.00	0.00	H
ATOM	981	1HH1 ARG A	70161.731	5.474	9.181	1.00	0.00	H
ATOM	982	2HH1 ARG A	70163.347	5.210	9.744	1.00	0.00	H
ATOM	983	1HH2 ARG A	70164.825	5.624	6.604	1.00	0.00	H
ATOM	984	2HH2 ARG A	70165.104	5.296	8.282	1.00	0.00	H

ATOM	985	N	TYR A	71157.354	7.415	3.953	1.00	0.00	N
ATOM	986	CA	TYR A	71156.182	8.156	4.406	1.00	0.00	C
ATOM	987	C	TYR A	71155.796	7.749	5.824	1.00	0.00	C
ATOM	988	O	TYR A	71155.470	8.595	6.657	1.00	0.00	O
ATOM	989	CB	TYR A	71155.007	7.920	3.457	1.00	0.00	C
ATOM	990	CG	TYR A	71155.195	8.551	2.094	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.167	9.930	1.937	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.397	7.766	0.966	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.337	10.510	0.693	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.568	8.337	-0.280	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.537	9.710	-0.411	1.00	0.00	C
ATOM	996	OH	TYR A	71155.707	10.284	-1.650	1.00	0.00	O
ATOM	997	H	TYR A	71157.249	6.486	3.661	1.00	0.00	H
ATOM	998	HA	TYR A	71156.432	9.207	4.401	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.875	6.859	3.315	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.111	8.336	3.895	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.010	10.555	2.804	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.420	6.691	1.071	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.313	11.585	0.592	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.725	7.710	-1.145	1.00	0.00	H
ATOM	1005	HH	TYR A	71156.632	10.235	-1.902	1.00	0.00	H
ATOM	1006	N	PHE A	72155.835	6.447	6.092	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.488	5.928	7.409	1.00	0.00	C
ATOM	1008	C	PHE A	72156.491	4.871	7.858	1.00	0.00	C
ATOM	1009	O	PHE A	72157.311	4.403	7.068	1.00	0.00	O
ATOM	1010	CB	PHE A	72154.079	5.335	7.393	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.863	4.329	6.298	1.00	0.00	C

ATOM	1012	CD1 PHE A	72154.015	2.974	6.546	1.00	0.00	C
ATOM	1013	CD2 PHE A	72153.508	4.738	5.023	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.817	2.046	5.541	1.00	0.00	C
ATOM	1015	CE2 PHE A	72153.309	3.816	4.015	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.463	2.468	4.274	1.00	0.00	C
ATOM	1017	H PHE A	72156.102	5.823	5.386	1.00	0.00	H
ATOM	1018	HA PHE A	72155.514	6.751	8.107	1.00	0.00	H
ATOM	1019	1HB PHE A	72153.890	4.844	8.336	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.361	6.132	7.260	1.00	0.00	H
ATOM	1021	HD1 PHE A	72154.290	2.644	7.537	1.00	0.00	H
ATOM	1022	HD2 PHE A	72153.387	5.793	4.820	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.939	0.993	5.746	1.00	0.00	H
ATOM	1024	HE2 PHE A	72153.033	4.148	3.024	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.308	1.744	3.487	1.00	0.00	H
ATOM	1026	N THR A	73156.422	4.500	9.133	1.00	0.00	N
ATOM	1027	CA THR A	73157.326	3.498	9.688	1.00	0.00	C
ATOM	1028	C THR A	73156.594	2.182	9.932	1.00	0.00	C
ATOM	1029	O THR A	73155.767	2.079	10.838	1.00	0.00	O
ATOM	1030	CB THR A	73157.941	4.003	10.993	1.00	0.00	C
ATOM	1031	OG1 THR A	73156.941	4.531	11.848	1.00	0.00	O
ATOM	1032	CG2 THR A	73158.983	5.080	10.785	1.00	0.00	C
ATOM	1033	H THR A	73155.748	4.909	9.714	1.00	0.00	H
ATOM	1034	HA THR A	73158.114	3.329	8.970	1.00	0.00	H
ATOM	1035	HB THR A	73158.417	3.176	11.499	1.00	0.00	H
ATOM	1036	HG1 THR A	73156.596	5.344	11.472	1.00	0.00	H
ATOM	1037	1HG2 THR A	73159.375	5.392	11.742	1.00	0.00	H
ATOM	1038	2HG2 THR A	73158.532	5.927	10.289	1.00	0.00	H

ATOM	1039	3HG2 THR A	73159.786	4.692	10.177	1.00	0.00	H
ATOM	1040	N CYS A	74156.905	1.178	9.118	1.00	0.00	N
ATOM	1041	CA CYS A	74156.276	-0.132	9.247	1.00	0.00	C
ATOM	1042	C CYS A	74157.327	-1.238	9.278	1.00	0.00	C
ATOM	1043	O CYS A	74158.514	-0.986	9.073	1.00	0.00	O
ATOM	1044	CB CYS A	74155.305	-0.369	8.090	1.00	0.00	C
ATOM	1045	SG CYS A	74153.619	0.197	8.415	1.00	0.00	S
ATOM	1046	H CYS A	74157.572	1.322	8.415	1.00	0.00	H
ATOM	1047	HA CYS A	74155.727	-0.147	10.176	1.00	0.00	H
ATOM	1048	1HB CYS A	74155.662	0.153	7.215	1.00	0.00	H
ATOM	1049	2HB CYS A	74155.261	-1.428	7.877	1.00	0.00	H
ATOM	1050	HG CYS A	74153.098	0.048	7.623	1.00	0.00	H
ATOM	1051	N ALA A	75156.880	-2.462	9.536	1.00	0.00	N
ATOM	1052	CA ALA A	75157.781	-3.607	9.595	1.00	0.00	C
ATOM	1053	C ALA A	75158.466	-3.836	8.251	1.00	0.00	C
ATOM	1054	O ALA A	75158.120	-3.206	7.251	1.00	0.00	O
ATOM	1055	CB ALA A	75157.022	-4.854	10.021	1.00	0.00	C
ATOM	1056	H ALA A	75155.923	-2.600	9.691	1.00	0.00	H
ATOM	1057	HA ALA A	75158.535	-3.401	10.341	1.00	0.00	H
ATOM	1058	1HB ALA A	75156.775	-5.441	9.149	1.00	0.00	H
ATOM	1059	2HB ALA A	75156.113	-4.566	10.529	1.00	0.00	H
ATOM	1060	3HB ALA A	75157.636	-5.441	10.687	1.00	0.00	H
ATOM	1061	N LEU A	76159.440	-4.741	8.235	1.00	0.00	N
ATOM	1062	CA LEU A	76160.174	-5.052	7.014	1.00	0.00	C
ATOM	1063	C LEU A	76159.372	-5.997	6.124	1.00	0.00	C
ATOM	1064	O LEU A	76158.793	-6.973	6.600	1.00	0.00	O
ATOM	1065	CB LEU A	76161.527	-5.679	7.353	1.00	0.00	C

ATOM	1066	CG	LEU A	76162.600	-4.692	7.818	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.504	-5.337	8.856	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.415	-4.197	6.633	1.00	0.00	C
ATOM	1069	H	LEU A	76159.671	-5.210	9.064	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.339	-4.129	6.482	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.376	-6.410	8.135	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.895	-6.189	6.475	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.121	-3.839	8.276	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76163.112	-5.145	9.844	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76164.497	-4.919	8.777	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.547	-6.401	8.686	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76163.394	-4.936	5.846	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76164.436	-4.028	6.943	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.993	-3.271	6.267	1.00	0.00	H
ATOM	1080	N	LYS A	77159.343	-5.699	4.829	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.612	-6.522	3.872	1.00	0.00	C
ATOM	1082	C	LYS A	77157.123	-6.548	4.201	1.00	0.00	C
ATOM	1083	O	LYS A	77156.500	-7.610	4.224	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.172	-7.946	3.859	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.683	-8.006	3.706	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.119	-7.581	2.314	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.513	-6.976	2.326	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.560	-7.995	2.614	1.00	0.00	N
ATOM	1089	H	LYS A	77159.825	-4.908	4.510	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.744	-6.086	2.892	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.907	-8.433	4.787	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.728	-8.489	3.038	1.00	0.00	H

ATOM	1093	1HG	LYS A	77161.135	-7.344	4.431	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.014	-9.018	3.886	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.120	-8.447	1.668	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.421	-6.849	1.936	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.708	-6.535	1.361	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.552	-6.209	3.086	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77163.525	-8.270	3.616	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77164.502	-7.610	2.403	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77163.404	-8.841	2.028	1.00	0.00	H
ATOM	1102	N	LYS A	78156.558	-5.373	4.456	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.142	-5.261	4.785	1.00	0.00	C
ATOM	1104	C	LYS A	78154.602	-3.885	4.407	1.00	0.00	C
ATOM	1105	O	LYS A	78153.781	-3.312	5.123	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.921	-5.517	6.278	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.477	-6.850	6.755	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.149	-7.097	8.218	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.954	-8.023	8.373	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.139	-7.684	9.573	1.00	0.00	N
ATOM	1111	H	LYS A	78157.106	-4.561	4.423	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.610	-6.012	4.219	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.400	-4.729	6.840	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.861	-5.500	6.482	1.00	0.00	H
ATOM	1115	1HG	LYS A	78155.046	-7.641	6.161	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.550	-6.845	6.631	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.005	-7.550	8.697	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.926	-6.152	8.692	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.332	-7.938	7.493	1.00	0.00	H

ATOM	1120	2HE	LYS A	78154.309	-9.038	8.464	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.325	-8.326	9.645	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.792	-6.707	9.505	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.716	-7.775	10.433	1.00	0.00	H
ATOM	1124	N	ALA A	79155.068	-3.363	3.278	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.633	-2.055	2.805	1.00	0.00	C
ATOM	1126	C	ALA A	79154.555	-2.020	1.282	1.00	0.00	C
ATOM	1127	O	ALA A	79155.578	-1.989	0.599	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.571	-0.971	3.312	1.00	0.00	C
ATOM	1129	H	ALA A	79155.721	-3.869	2.751	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.648	-1.864	3.209	1.00	0.00	H
ATOM	1131	1HB	ALA A	79156.010	-1.283	4.248	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.017	-0.056	3.462	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.353	-0.802	2.586	1.00	0.00	H
ATOM	1134	N	LEU A	80153.334	-2.025	0.757	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.122	-1.994	-0.685	1.00	0.00	C
ATOM	1136	C	LEU A	80152.248	-0.809	-1.081	1.00	0.00	C
ATOM	1137	O	LEU A	80151.047	-0.791	-0.810	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.476	-3.299	-1.154	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.145	-3.358	-2.647	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.393	-3.669	-3.458	1.00	0.00	C
ATOM	1141	CD2	LEU A	80151.062	-4.394	-2.911	1.00	0.00	C
ATOM	1142	H	LEU A	80152.557	-2.050	1.353	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.086	-1.889	-1.160	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.147	-4.113	-0.923	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.559	-3.442	-0.600	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.772	-2.395	-2.964	1.00	0.00	H

ATOM	1147	1HD1	LEU A	80153.335	-3.169	-4.413	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.464	-4.735	-3.614	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80154.265	-3.325	-2.923	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80150.263	-4.270	-2.196	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80151.481	-5.385	-2.814	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.675	-4.263	-3.911	1.00	0.00	H
ATOM	1153	N	PHE A	81152.858	0.182	-1.724	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.135	1.371	-2.158	1.00	0.00	C
ATOM	1155	C	PHE A	81151.374	1.103	-3.452	1.00	0.00	C
ATOM	1156	O	PHE A	81151.879	0.436	-4.355	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.104	2.538	-2.355	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.883	2.888	-1.119	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.494	3.947	-0.316	1.00	0.00	C
ATOM	1160	CD2	PHE A	81155.005	2.157	-0.761	1.00	0.00	C
ATOM	1161	CE1	PHE A	81154.209	4.271	0.822	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.724	2.476	0.375	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.325	3.534	1.167	1.00	0.00	C
ATOM	1164	H	PHE A	81153.817	0.110	-1.911	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.428	1.630	-1.385	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.810	2.283	-3.131	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.546	3.414	-2.656	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.621	4.524	-0.585	1.00	0.00	H
ATOM	1169	HD2	PHE A	81155.317	1.329	-1.381	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.895	5.100	1.440	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.596	1.898	0.643	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.884	3.785	2.056	1.00	0.00	H
ATOM	1173	N	VAL A	82150.155	1.628	-3.535	1.00	0.00	N

ATOM	1174	CA	VAL A	82149.324	1.445	-4.718	1.00	0.00	C
ATOM	1175	C	VAL A	82148.369	2.618	-4.907	1.00	0.00	C
ATOM	1176	O	VAL A	82148.190	3.437	-4.005	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.507	0.142	-4.635	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.423	-1.069	-4.717	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.682	0.111	-3.358	1.00	0.00	C
ATOM	1180	H	VAL A	82149.807	2.151	-2.782	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.976	1.382	-5.577	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.830	0.111	-5.477	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.197	-0.886	-5.447	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.848	-1.936	-5.010	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.873	-1.247	-3.751	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.413	1.118	-3.078	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82148.261	-0.341	-2.566	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82146.784	-0.468	-3.523	1.00	0.00	H
ATOM	1189	N	LYS A	83147.757	2.694	-6.084	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.820	3.768	-6.391	1.00	0.00	C
ATOM	1191	C	LYS A	83145.576	3.672	-5.515	1.00	0.00	C
ATOM	1192	O	LYS A	83144.875	2.659	-5.521	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.424	3.721	-7.868	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.590	3.945	-8.818	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.222	3.577	-10.246	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.832	4.546	-11.246	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.273	3.859	-12.490	1.00	0.00	N
ATOM	1198	H	LYS A	83147.941	2.011	-6.763	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.313	4.707	-6.190	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.993	2.754	-8.081	1.00	0.00	H

ATOM	1201	2HB	LYS A	83145.684	4.484	-8.054	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.871	4.986	-8.786	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.421	3.334	-8.500	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.587	2.583	-10.456	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.147	3.598	-10.349	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.095	5.293	-11.500	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.686	5.025	-10.788	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83149.279	3.605	-12.422	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83148.139	4.483	-13.310	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83147.717	2.991	-12.635	1.00	0.00	H
ATOM	1211	N	LEU A	84145.307	4.735	-4.765	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.147	4.776	-3.883	1.00	0.00	C
ATOM	1213	C	LEU A	84142.855	4.587	-4.673	1.00	0.00	C
ATOM	1214	O	LEU A	84141.893	4.002	-4.176	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.108	6.105	-3.127	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.878	6.316	-2.242	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.016	5.538	-0.942	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.672	7.795	-1.961	1.00	0.00	C
ATOM	1219	H	LEU A	84145.903	5.510	-4.806	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.242	3.970	-3.172	1.00	0.00	H
ATOM	1221	1HB	LEU A	84144.989	6.165	-2.504	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.145	6.906	-3.849	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.004	5.947	-2.760	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.131	5.683	-0.340	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84143.882	5.890	-0.401	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.134	4.486	-1.162	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84141.827	7.923	-1.300	1.00	0.00	H

ATOM	1228	2HD2	LEU A	84142.485	8.316	-2.887	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84143.558	8.200	-1.493	1.00	0.00	H
ATOM	1230	N	LYS A	85142.843	5.085	-5.904	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.670	4.971	-6.764	1.00	0.00	C
ATOM	1232	C	LYS A	85141.371	3.510	-7.086	1.00	0.00	C
ATOM	1233	O	LYS A	85140.226	3.147	-7.355	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.882	5.757	-8.059	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.234	5.509	-8.708	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.209	6.639	-8.416	1.00	0.00	C
ATOM	1237	CE	LYS A	85145.050	6.980	-9.635	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.823	8.237	-9.443	1.00	0.00	N
ATOM	1239	H	LYS A	85143.642	5.540	-6.244	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.829	5.389	-6.232	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.112	5.481	-8.764	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.798	6.812	-7.842	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.642	4.587	-8.325	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.099	5.429	-9.776	1.00	0.00	H
ATOM	1245	1HD	LYS A	85143.653	7.515	-8.119	1.00	0.00	H
ATOM	1246	2HD	LYS A	85144.863	6.336	-7.611	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.739	6.169	-9.820	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.396	7.096	-10.487	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.341	8.853	-8.758	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85145.911	8.745	-10.346	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85146.777	8.020	-9.087	1.00	0.00	H
ATOM	1252	N	SER A	86142.405	2.675	-7.058	1.00	0.00	N
ATOM	1253	CA	SER A	86142.248	1.255	-7.348	1.00	0.00	C
ATOM	1254	C	SER A	86142.150	0.442	-6.061	1.00	0.00	C

ATOM	1255	O	SER A	86142.547	-0.722	-6.017	1.00	0.00	O
ATOM	1256	CB	SER A	86143.421	0.752	-8.193	1.00	0.00	C
ATOM	1257	OG	SER A	86143.705	1.648	-9.254	1.00	0.00	O
ATOM	1258	H	SER A	86143.295	3.023	-6.838	1.00	0.00	H
ATOM	1259	HA	SER A	86141.334	1.130	-7.908	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.298	0.663	-7.569	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.176	-0.214	-8.608	1.00	0.00	H
ATOM	1262	HG	SER A	86144.344	1.247	-9.848	1.00	0.00	H
ATOM	1263	N	CYS A	87141.618	1.064	-5.012	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.467	0.398	-3.724	1.00	0.00	C
ATOM	1265	C	CYS A	87139.994	0.260	-3.353	1.00	0.00	C
ATOM	1266	O	CYS A	87139.165	1.081	-3.747	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.207	1.175	-2.634	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.989	0.867	-2.590	1.00	0.00	S
ATOM	1269	H	CYS A	87141.319	1.992	-5.108	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.898	-0.588	-3.808	1.00	0.00	H
ATOM	1271	1HB	CYS A	87142.062	2.233	-2.795	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.802	0.904	-1.670	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.418	1.539	-3.125	1.00	0.00	H
ATOM	1274	N	ARG A	88139.674	-0.783	-2.595	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.300	-1.027	-2.172	1.00	0.00	C
ATOM	1276	C	ARG A	88138.226	-1.247	-0.662	1.00	0.00	C
ATOM	1277	O	ARG A	88139.134	-1.828	-0.067	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.728	-2.243	-2.903	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.135	-1.911	-4.264	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.620	-1.785	-4.199	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.175	-0.413	-4.428	1.00	0.00	N

ATOM	1282	CZ	ARG A	88135.192	0.183	-5.618	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.631	-0.468	-6.688	1.00	0.00	N
ATOM	1284	NH2	ARG A	88134.768	1.433	-5.740	1.00	0.00	N
ATOM	1285	H	ARG A	88140.378	-1.403	-2.312	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.715	-0.156	-2.427	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.517	-2.967	-3.046	1.00	0.00	H
ATOM	1288	2HB	ARG A	88136.953	-2.684	-2.294	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.549	-0.974	-4.607	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.392	-2.697	-4.958	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.186	-2.424	-4.953	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.285	-2.103	-3.222	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.846	0.092	-3.655	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88135.952	-1.412	-6.603	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.640	-0.016	-7.580	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88134.436	1.929	-4.938	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88134.780	1.881	-6.634	1.00	0.00	H
ATOM	1298	N	PRO A	89137.138	-0.787	-0.019	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.954	-0.940	1.428	1.00	0.00	C
ATOM	1300	C	PRO A	89137.091	-2.390	1.877	1.00	0.00	C
ATOM	1301	O	PRO A	89136.444	-3.284	1.330	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.526	-0.441	1.664	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.249	0.476	0.523	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.005	-0.084	-0.649	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.650	-0.326	1.981	1.00	0.00	H
ATOM	1306	1HB	PRO A	89134.846	-1.280	1.672	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.476	0.079	2.609	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.189	0.491	0.314	1.00	0.00	H

ATOM	1309	2HG	PRO A	89135.602	1.469	0.758	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.384	-0.771	-1.205	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.354	0.714	-1.288	1.00	0.00	H
ATOM	1312	N	ASP A	90137.937	-2.618	2.876	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.157	-3.961	3.398	1.00	0.00	C
ATOM	1314	C	ASP A	90137.366	-4.181	4.683	1.00	0.00	C
ATOM	1315	O	ASP A	90137.759	-3.716	5.754	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.647	-4.192	3.658	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.036	-5.653	3.537	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.335	-6.275	4.578	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.041	-6.174	2.403	1.00	0.00	O
ATOM	1320	H	ASP A	90138.424	-1.866	3.271	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.817	-4.667	2.655	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.223	-3.626	2.941	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.889	-3.855	4.654	1.00	0.00	H
ATOM	1324	N	SER A	91136.249	-4.893	4.571	1.00	0.00	N
ATOM	1325	CA	SER A	91135.403	-5.173	5.725	1.00	0.00	C
ATOM	1326	C	SER A	91135.694	-6.560	6.292	1.00	0.00	C
ATOM	1327	O	SER A	91134.834	-7.177	6.920	1.00	0.00	O
ATOM	1328	CB	SER A	91133.928	-5.070	5.339	1.00	0.00	C
ATOM	1329	OG	SER A	91133.139	-4.656	6.440	1.00	0.00	O
ATOM	1330	H	SER A	91135.988	-5.237	3.691	1.00	0.00	H
ATOM	1331	HA	SER A	91135.620	-4.435	6.482	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.815	-4.351	4.541	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.577	-6.036	5.005	1.00	0.00	H
ATOM	1334	HG	SER A	91132.431	-5.288	6.584	1.00	0.00	H
ATOM	1335	N	ARG A	92136.912	-7.045	6.069	1.00	0.00	N

ATOM	1336	CA	ARG A	92137.312	-8.358	6.561	1.00	0.00	C
ATOM	1337	C	ARG A	92137.327	-8.385	8.086	1.00	0.00	C
ATOM	1338	O	ARG A	92137.097	-9.426	8.702	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.693	-8.731	6.019	1.00	0.00	C
ATOM	1340	CG	ARG A	92138.670	-9.221	4.580	1.00	0.00	C
ATOM	1341	CD	ARG A	92137.825	-10.475	4.432	1.00	0.00	C
ATOM	1342	NE	ARG A	92136.492	-10.179	3.911	1.00	0.00	N
ATOM	1343	CZ	ARG A	92136.232	-9.956	2.624	1.00	0.00	C
ATOM	1344	NH1	ARG A	92137.209	-9.994	1.726	1.00	0.00	N
ATOM	1345	NH2	ARG A	92134.992	-9.695	2.235	1.00	0.00	N
ATOM	1346	H	ARG A	92137.557	-6.509	5.564	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.589	-9.078	6.208	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.334	-7.863	6.072	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.110	-9.513	6.636	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.257	-8.444	3.953	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.681	-9.438	4.269	1.00	0.00	H
ATOM	1352	1HD	ARG A	92138.324	-11.152	3.755	1.00	0.00	H
ATOM	1353	2HD	ARG A	92137.726	-10.944	5.400	1.00	0.00	H
ATOM	1354	HE	ARG A	92135.752	-10.145	4.552	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92138.147	-10.191	2.013	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92137.007	-9.826	0.761	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92134.252	-9.666	2.907	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92134.796	-9.528	1.268	1.00	0.00	H
ATOM	1359	N	PHE A	93137.598	-7.232	8.690	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.643	-7.121	10.144	1.00	0.00	C
ATOM	1361	C	PHE A	93136.506	-6.246	10.661	1.00	0.00	C
ATOM	1362	O	PHE A	93136.622	-5.622	11.715	1.00	0.00	O

ATOM	1363	CB	PHE A	93138.988	-6.547	10.591	1.00	0.00	C
ATOM	1364	CG	PHE A	93140.161	-7.413	10.229	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.944	-7.988	11.217	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.480	-7.652	8.903	1.00	0.00	C
ATOM	1367	CE1	PHE A	93142.023	-8.787	10.889	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.558	-8.449	8.567	1.00	0.00	C
ATOM	1369	CZ	PHE A	93142.331	-9.016	9.562	1.00	0.00	C
ATOM	1370	H	PHE A	93137.773	-6.436	8.146	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.532	-8.114	10.555	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.132	-5.582	10.125	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.981	-6.425	11.664	1.00	0.00	H
ATOM	1374	HD1	PHE A	93140.704	-7.809	12.255	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.877	-7.208	8.124	1.00	0.00	H
ATOM	1376	HE1	PHE A	93142.625	-9.228	11.668	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.797	-8.627	7.529	1.00	0.00	H
ATOM	1378	HZ	PHE A	93143.175	-9.640	9.302	1.00	0.00	H
ATOM	1379	N	ALA A	94135.407	-6.203	9.912	1.00	0.00	N
ATOM	1380	CA	ALA A	94134.252	-5.403	10.300	1.00	0.00	C
ATOM	1381	C	ALA A	94133.515	-6.036	11.474	1.00	0.00	C
ATOM	1382	O	ALA A	94133.186	-7.221	11.448	1.00	0.00	O
ATOM	1383	CB	ALA A	94133.311	-5.227	9.116	1.00	0.00	C
ATOM	1384	H	ALA A	94135.373	-6.721	9.081	1.00	0.00	H
ATOM	1385	HA	ALA A	94134.607	-4.426	10.594	1.00	0.00	H
ATOM	1386	1HB	ALA A	94133.533	-4.295	8.616	1.00	0.00	H
ATOM	1387	2HB	ALA A	94132.291	-5.213	9.466	1.00	0.00	H
ATOM	1388	3HB	ALA A	94133.444	-6.047	8.426	1.00	0.00	H
ATOM	1389	N	SER A	95133.257	-5.236	12.504	1.00	0.00	N

ATOM	1390	CA	SER A	95132.557	-5.717	13.689	1.00	0.00	C
ATOM	1391	C	SER A	95131.078	-5.939	13.396	1.00	0.00	C
ATOM	1392	O	SER A	95130.347	-4.997	13.093	1.00	0.00	O
ATOM	1393	CB	SER A	95132.718	-4.723	14.840	1.00	0.00	C
ATOM	1394	OG	SER A	95134.071	-4.626	15.247	1.00	0.00	O
ATOM	1395	H	SER A	95133.544	-4.299	12.466	1.00	0.00	H
ATOM	1396	HA	SER A	95133.001	-6.659	13.975	1.00	0.00	H
ATOM	1397	1HB	SER A	95132.379	-3.748	14.522	1.00	0.00	H
ATOM	1398	2HB	SER A	95132.124	-5.052	15.682	1.00	0.00	H
ATOM	1399	HG	SER A	95134.111	-4.383	16.175	1.00	0.00	H
ATOM	1400	N	LEU A	96130.643	-7.192	13.488	1.00	0.00	N
ATOM	1401	CA	LEU A	96129.250	-7.537	13.233	1.00	0.00	C
ATOM	1402	C	LEU A	96128.828	-8.744	14.064	1.00	0.00	C
ATOM	1403	O	LEU A	96128.824	-9.876	13.579	1.00	0.00	O
ATOM	1404	CB	LEU A	96129.039	-7.830	11.746	1.00	0.00	C
ATOM	1405	CG	LEU A	96128.713	-6.609	10.885	1.00	0.00	C
ATOM	1406	CD1	LEU A	96129.040	-6.881	9.425	1.00	0.00	C
ATOM	1407	CD2	LEU A	96127.249	-6.224	11.042	1.00	0.00	C
ATOM	1408	H	LEU A	96131.274	-7.900	13.734	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.642	-6.691	13.513	1.00	0.00	H
ATOM	1410	1HB	LEU A	96129.940	-8.286	11.359	1.00	0.00	H
ATOM	1411	2HB	LEU A	96128.229	-8.537	11.650	1.00	0.00	H
ATOM	1412	HG	LEU A	96129.316	-5.774	11.212	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96129.355	-5.964	8.950	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96128.163	-7.263	8.924	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96129.835	-7.609	9.364	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96126.884	-5.810	10.114	1.00	0.00	H

ATOM	1417	2HD2	LEU A	96127.153	-5.488	11.828	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96126.672	-7.100	11.298	1.00	0.00	H
ATOM	1419	N	GLN A	97128.471	-8.495	15.320	1.00	0.00	N
ATOM	1420	CA	GLN A	97128.046	-9.560	16.220	1.00	0.00	C
ATOM	1421	C	GLN A	97126.659	-9.272	16.790	1.00	0.00	C
ATOM	1422	O	GLN A	97126.264	-8.114	16.928	1.00	0.00	O
ATOM	1423	CB	GLN A	97129.053	-9.725	17.361	1.00	0.00	C
ATOM	1424	CG	GLN A	97130.174	-10.704	17.045	1.00	0.00	C
ATOM	1425	CD	GLN A	97130.874	-11.208	18.292	1.00	0.00	C
ATOM	1426	OE1	GLN A	97130.231	-11.632	19.251	1.00	0.00	O
ATOM	1427	NE2	GLN A	97132.201	-11.162	18.283	1.00	0.00	N
ATOM	1428	H	GLN A	97128.494	-7.572	15.649	1.00	0.00	H
ATOM	1429	HA	GLN A	97128.005	-10.478	15.653	1.00	0.00	H
ATOM	1430	1HB	GLN A	97129.495	-8.764	17.578	1.00	0.00	H
ATOM	1431	2HB	GLN A	97128.533	-10.079	18.238	1.00	0.00	H
ATOM	1432	1HG	GLN A	97129.758	-11.550	16.518	1.00	0.00	H
ATOM	1433	2HG	GLN A	97130.899	-10.209	16.417	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97132.647	-10.812	17.485	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97132.681	-11.482	19.076	1.00	0.00	H
ATOM	1436	N	PRO A	98125.898	-10.327	17.129	1.00	0.00	N
ATOM	1437	CA	PRO A	98124.549	-10.181	17.686	1.00	0.00	C
ATOM	1438	C	PRO A	98124.566	-9.615	19.102	1.00	0.00	C
ATOM	1439	O	PRO A	98125.628	-9.439	19.699	1.00	0.00	O
ATOM	1440	CB	PRO A	98124.009	-11.613	17.690	1.00	0.00	C
ATOM	1441	CG	PRO A	98125.221	-12.475	17.756	1.00	0.00	C
ATOM	1442	CD	PRO A	98126.294	-11.743	16.998	1.00	0.00	C
ATOM	1443	HA	PRO A	98123.928	-9.560	17.059	1.00	0.00	H

ATOM	1444	1HB	PRO A	98123.372	-11.758	18.549	1.00	0.00	H
ATOM	1445	2HB	PRO A	98123.448	-11.791	16.784	1.00	0.00	H
ATOM	1446	1HG	PRO A	98125.517	-12.613	18.785	1.00	0.00	H
ATOM	1447	2HG	PRO A	98125.019	-13.429	17.291	1.00	0.00	H
ATOM	1448	1HD	PRO A	98127.259	-11.917	17.448	1.00	0.00	H
ATOM	1449	2HD	PRO A	98126.297	-12.046	15.962	1.00	0.00	H
ATOM	1450	N	SER A	99123.382	-9.331	19.634	1.00	0.00	N
ATOM	1451	CA	SER A	99123.259	-8.784	20.981	1.00	0.00	C
ATOM	1452	C	SER A	99122.426	-9.703	21.868	1.00	0.00	C
ATOM	1453	O	SER A	99121.262	-9.977	21.575	1.00	0.00	O
ATOM	1454	CB	SER A	99122.626	-7.392	20.932	1.00	0.00	C
ATOM	1455	OG	SER A	99123.485	-6.463	20.292	1.00	0.00	O
ATOM	1456	H	SER A	99122.570	-9.493	19.109	1.00	0.00	H
ATOM	1457	HA	SER A	99124.252	-8.704	21.398	1.00	0.00	H
ATOM	1458	1HB	SER A	99121.697	-7.440	20.385	1.00	0.00	H
ATOM	1459	2HB	SER A	99122.434	-7.051	21.939	1.00	0.00	H
ATOM	1460	HG	SER A	99123.508	-5.648	20.798	1.00	0.00	H
ATOM	1461	N	GLY A	100123.030	-10.177	22.953	1.00	0.00	N
ATOM	1462	CA	GLY A	100122.328	-11.060	23.866	1.00	0.00	C
ATOM	1463	C	GLY A	100123.264	-11.750	24.840	1.00	0.00	C
ATOM	1464	O	GLY A	100124.480	-11.744	24.645	1.00	0.00	O
ATOM	1465	H	GLY A	100123.958	-9.925	23.135	1.00	0.00	H
ATOM	1466	1HA	GLY A	100121.606	-10.483	24.424	1.00	0.00	H
ATOM	1467	2HA	GLY A	100121.806	-11.811	23.292	1.00	0.00	H
ATOM	1468	N	PRO A	101122.723	-12.361	25.909	1.00	0.00	N
ATOM	1469	CA	PRO A	101123.532	-13.058	26.914	1.00	0.00	C
ATOM	1470	C	PRO A	101124.481	-14.075	26.289	1.00	0.00	C

ATOM	1471	O	PRO A 101124.058 -15.142	25.844	1.00	0.00	O
ATOM	1472	CB	PRO A 101122.490 -13.764	27.784	1.00	0.00	C
ATOM	1473	CG	PRO A 101121.251 -12.951	27.626	1.00	0.00	C
ATOM	1474	CD	PRO A 101121.283 -12.419	26.220	1.00	0.00	C
ATOM	1475	HA	PRO A 101124.098 -12.363	27.517	1.00	0.00	H
ATOM	1476	1HB	PRO A 101122.347 -14.775	27.430	1.00	0.00	H
ATOM	1477	2HB	PRO A 101122.824 -13.779	28.810	1.00	0.00	H
ATOM	1478	1HG	PRO A 101120.382 -13.575	27.772	1.00	0.00	H
ATOM	1479	2HG	PRO A 101121.254 -12.137	28.336	1.00	0.00	H
ATOM	1480	1HD	PRO A 101120.770 -13.092	25.550	1.00	0.00	H
ATOM	1481	2HD	PRO A 101120.841 -11.434	26.180	1.00	0.00	H
ATOM	1482	N	SER A 102125.766 -13.737	26.259	1.00	0.00	N
ATOM	1483	CA	SER A 102126.776 -14.621	25.688	1.00	0.00	C
ATOM	1484	C	SER A 102128.162 -14.283	26.226	1.00	0.00	C
ATOM	1485	O	SER A 102128.405 -13.168	26.686	1.00	0.00	O
ATOM	1486	CB	SER A 102126.769 -14.520	24.162	1.00	0.00	C
ATOM	1487	OG	SER A 102127.881 -15.196	23.599	1.00	0.00	O
ATOM	1488	H	SER A 102126.042 -12.874	26.629	1.00	0.00	H
ATOM	1489	HA	SER A 102126.528 -15.633	25.973	1.00	0.00	H
ATOM	1490	1HB	SER A 102125.863 -14.962	23.776	1.00	0.00	H
ATOM	1491	2HB	SER A 102126.812 -13.480	23.873	1.00	0.00	H
ATOM	1492	HG	SER A 102128.175 -14.731	22.813	1.00	0.00	H
ATOM	1493	N	SER A 103129.067 -15.254	26.164	1.00	0.00	N
ATOM	1494	CA	SER A 103130.431 -15.060	26.645	1.00	0.00	C
ATOM	1495	C	SER A 103131.329 -16.216	26.219	1.00	0.00	C
ATOM	1496	O	SER A 103131.152 -17.349	26.666	1.00	0.00	O
ATOM	1497	CB	SER A 103130.442 -14.924	28.169	1.00	0.00	C

ATOM	1498	OG	SER A 103130.264 -16.183	28.794	1.00	0.00	O
ATOM	1499	H	SER A 103128.814 -16.122	25.786	1.00	0.00	H
ATOM	1500	HA	SER A 103130.808 -14.146	26.209	1.00	0.00	H
ATOM	1501	1HB	SER A 103131.388 -14.510	28.485	1.00	0.00	H
ATOM	1502	2HB	SER A 103129.641 -14.267	28.476	1.00	0.00	H
ATOM	1503	HG	SER A 103129.437 -16.186	29.280	1.00	0.00	H
ATOM	1504	N	GLY A 104132.292 -15.922	25.352	1.00	0.00	N
ATOM	1505	CA	GLY A 104133.203 -16.947	24.880	1.00	0.00	C
ATOM	1506	C	GLY A 104132.655 -17.708	23.689	1.00	0.00	C
ATOM	1507	O	GLY A 104133.079 -17.416	22.551	1.00	0.00	O
ATOM	1508	OXT	GLY A 104131.800 -18.596	23.893	1.00	0.00	O
ATOM	1509	H	GLY A 104132.385 -15.001	25.030	1.00	0.00	H
ATOM	1510	1HA	GLY A 104134.137 -16.483	24.598	1.00	0.00	H
ATOM	1511	2HA	GLY A 104133.390 -17.645	25.683	1.00	0.00	H
TER	1512	GLY A 104					
ENDMDL							

Three-Dimensional Structure Coordinate Table 7

ATOM 1	N	GLY A	1128.015	1.010 -10.316	1.00	0.00	N
ATOM 2	CA	GLY A	1127.655	-0.374 -10.731	1.00	0.00	C
ATOM 3	C	GLY A	1128.389	-1.429 -9.927	1.00	0.00	C
ATOM 4	O	GLY A	1128.645	-2.528 -10.420	1.00	0.00	O
ATOM 5	1H	GLY A	1129.039	1.078 -10.148	1.00	0.00	H
ATOM 6	2H	GLY A	1127.515	1.263 -9.441	1.00	0.00	H
ATOM 7	3H	GLY A	1127.751	1.686 -11.061	1.00	0.00	H
ATOM 8	1HA	GLY A	1126.592	-0.512 -10.600	1.00	0.00	H
ATOM 9	2HA	GLY A	1127.897	-0.499 -11.776	1.00	0.00	H

ATOM10	N	SER A	2128.728	-1.096	-8.686	1.00	0.00	N
ATOM11	CA	SER A	2129.437	-2.024	-7.813	1.00	0.00	C
ATOM12	C	SER A	2128.513	-2.562	-6.726	1.00	0.00	C
ATOM13	O	SER A	2128.240	-3.761	-6.667	1.00	0.00	O
ATOM14	CB	SER A	2130.645	-1.334	-7.176	1.00	0.00	C
ATOM15	OG	SER A	2131.499	-0.785	-8.163	1.00	0.00	O
ATOM16	H	SER A	2128.496	-0.205	-8.351	1.00	0.00	H
ATOM17	HA	SER A	2129.783	-2.849	-8.417	1.00	0.00	H
ATOM18	1HB	SER A	2130.304	-0.538	-6.531	1.00	0.00	H
ATOM19	2HB	SER A	2131.203	-2.054	-6.594	1.00	0.00	H
ATOM20	HG	SER A	2132.295	-0.445	-7.746	1.00	0.00	H
ATOM21	N	SER A	3128.033	-1.668	-5.868	1.00	0.00	N
ATOM22	CA	SER A	3127.138	-2.053	-4.782	1.00	0.00	C
ATOM23	C	SER A	3125.816	-1.298	-4.873	1.00	0.00	C
ATOM24	O	SER A	3125.217	-0.951	-3.856	1.00	0.00	O
ATOM25	CB	SER A	3127.799	-1.786	-3.429	1.00	0.00	C
ATOM26	OG	SER A	3128.587	-0.609	-3.469	1.00	0.00	O
ATOM27	H	SER A	3128.287	-0.726	-5.966	1.00	0.00	H
ATOM28	HA	SER A	3126.942	-3.111	-4.873	1.00	0.00	H
ATOM29	1HB	SER A	3127.036	-1.666	-2.674	1.00	0.00	H
ATOM30	2HB	SER A	3128.434	-2.620	-3.170	1.00	0.00	H
ATOM31	HG	SER A	3128.100	0.088	-3.915	1.00	0.00	H
ATOM32	N	GLY A	4125.367	-1.048	-6.099	1.00	0.00	N
ATOM33	CA	GLY A	4124.119	-0.335	-6.299	1.00	0.00	C
ATOM34	C	GLY A	4124.265	1.160	-6.100	1.00	0.00	C
ATOM35	O	GLY A	4125.326	1.638	-5.697	1.00	0.00	O
ATOM36	H	GLY A	4125.887	-1.348	-6.873	1.00	0.00	H

ATOM37	1HA	GLY A	4123.769	-0.521	-7.304	1.00	0.00	H
ATOM38	2HA	GLY A	4123.386	-0.711	-5.600	1.00	0.00	H
ATOM39	N	SER A	5123.197	1.900	-6.381	1.00	0.00	N
ATOM40	CA	SER A	5123.211	3.351	-6.231	1.00	0.00	C
ATOM41	C	SER A	5122.158	3.804	-5.225	1.00	0.00	C
ATOM42	O	SER A	5121.565	4.872	-5.369	1.00	0.00	O
ATOM43	CB	SER A	5122.967	4.027	-7.581	1.00	0.00	C
ATOM44	OG	SER A	5123.746	5.203	-7.711	1.00	0.00	O
ATOM45	H	SER A	5122.380	1.460	-6.698	1.00	0.00	H
ATOM46	HA	SER A	5124.186	3.637	-5.866	1.00	0.00	H
ATOM47	1HB	SER A	5123.231	3.346	-8.376	1.00	0.00	H
ATOM48	2HB	SER A	5121.923	4.291	-7.665	1.00	0.00	H
ATOM49	HG	SER A	5123.666	5.731	-6.914	1.00	0.00	H
ATOM50	N	SER A	6121.929	2.982	-4.205	1.00	0.00	N
ATOM51	CA	SER A	6120.947	3.298	-3.175	1.00	0.00	C
ATOM52	C	SER A	6121.634	3.702	-1.874	1.00	0.00	C
ATOM53	O	SER A	6122.774	3.317	-1.617	1.00	0.00	O
ATOM54	CB	SER A	6120.031	2.097	-2.929	1.00	0.00	C
ATOM55	OG	SER A	6119.317	1.751	-4.103	1.00	0.00	O
ATOM56	H	SER A	6122.434	2.144	-4.144	1.00	0.00	H
ATOM57	HA	SER A	6120.352	4.127	-3.527	1.00	0.00	H
ATOM58	1HB	SER A	6120.626	1.249	-2.622	1.00	0.00	H
ATOM59	2HB	SER A	6119.324	2.340	-2.149	1.00	0.00	H
ATOM60	HG	SER A	6118.645	1.100	-3.888	1.00	0.00	H
ATOM61	N	GLY A	7120.931	4.481	-1.058	1.00	0.00	N
ATOM62	CA	GLY A	7121.489	4.925	0.206	1.00	0.00	C
ATOM63	C	GLY A	7122.446	6.089	0.041	1.00	0.00	C

ATOM64	O	GLY A	7122.121	7.080	-0.613	1.00	0.00	O
ATOM65	H	GLY A	7120.027	4.756	-1.316	1.00	0.00	H
ATOM66	1HA	GLY A	7120.683	5.226	0.857	1.00	0.00	H
ATOM67	2HA	GLY A	7122.018	4.101	0.663	1.00	0.00	H
ATOM68	N	LEU A	8123.629	5.969	0.635	1.00	0.00	N
ATOM69	CA	LEU A	8124.636	7.021	0.551	1.00	0.00	C
ATOM70	C	LEU A	8125.948	6.474	-0.004	1.00	0.00	C
ATOM71	O	LEU A	8126.512	5.522	0.535	1.00	0.00	O
ATOM72	CB	LEU A	8124.873	7.642	1.930	1.00	0.00	C
ATOM73	CG	LEU A	8123.800	8.630	2.387	1.00	0.00	C
ATOM74	CD1	LEU A	8123.646	8.590	3.899	1.00	0.00	C
ATOM75	CD2	LEU A	8124.140	10.038	1.920	1.00	0.00	C
ATOM76	H	LEU A	8123.829	5.155	1.143	1.00	0.00	H
ATOM77	HA	LEU A	8124.266	7.782	-0.119	1.00	0.00	H
ATOM78	1HB	LEU A	8124.930	6.843	2.656	1.00	0.00	H
ATOM79	2HB	LEU A	8125.821	8.158	1.911	1.00	0.00	H
ATOM80	HG	LEU A	8122.852	8.351	1.948	1.00	0.00	H
ATOM81	1HD1	LEU A	8122.870	7.887	4.164	1.00	0.00	H
ATOM82	2HD1	LEU A	8123.380	9.572	4.260	1.00	0.00	H
ATOM83	3HD1	LEU A	8124.579	8.282	4.347	1.00	0.00	H
ATOM84	1HD2	LEU A	8124.270	10.041	0.848	1.00	0.00	H
ATOM85	2HD2	LEU A	8125.054	10.363	2.396	1.00	0.00	H
ATOM86	3HD2	LEU A	8123.337	10.709	2.187	1.00	0.00	H
ATOM87	N	ALA A	9126.427	7.081	-1.085	1.00	0.00	N
ATOM88	CA	ALA A	9127.671	6.655	-1.713	1.00	0.00	C
ATOM89	C	ALA A	9128.282	7.780	-2.541	1.00	0.00	C
ATOM90	O	ALA A	9127.588	8.712	-2.947	1.00	0.00	O

ATOM91	CB	ALA A	9127.430	5.429	-2.580	1.00	0.00 C
ATOM92	H	ALA A	9125.931	7.834	-1.468	1.00	0.00 H
ATOM93	HA	ALA A	9128.363	6.381	-0.929	1.00	0.00 H
ATOM94	1HB	ALA A	9126.713	4.782	-2.099	1.00	0.00 H
ATOM95	2HB	ALA A	9128.360	4.897	-2.717	1.00	0.00 H
ATOM96	3HB	ALA A	9127.047	5.738	-3.542	1.00	0.00 H
ATOM97	N	MET A	10129.585	7.686	-2.786	1.00	0.00 N
ATOM98	CA	MET A	10130.290	8.696	-3.566	1.00	0.00 C
ATOM99	C	MET A	10131.574	8.124	-4.163	1.00	0.00 C
ATOM	100	O	MET A	10132.645	8.223	-3.564	1.00 0.00 O
ATOM	101	CB	MET A	10130.617	9.909	-2.692	1.00 0.00 C
ATOM	102	CG	MET A	10129.385	10.644	-2.188	1.00 0.00 C
ATOM	103	SD	MET A	10129.778	12.268	-1.509	1.00 0.00 S
ATOM	104	CE	MET A	10128.986	13.337	-2.709	1.00 0.00 C
ATOM	105	H	MET A	10130.084	6.919	-2.434	1.00 0.00 H
ATOM	106	HA	MET A	10129.641	9.008	-4.370	1.00 0.00 H
ATOM	107	1HB	MET A	10131.188	9.579	-1.838	1.00 0.00 H
ATOM	108	2HB	MET A	10131.213	10.602	-3.267	1.00 0.00 H
ATOM	109	1HG	MET A	10128.697	10.771	-3.010	1.00 0.00 H
ATOM	110	2HG	MET A	10128.919	10.050	-1.416	1.00 0.00 H
ATOM	111	1HE	MET A	10128.189	13.886	-2.232	1.00 0.00 H
ATOM	112	2HE	MET A	10128.582	12.738	-3.512	1.00 0.00 H
ATOM	113	3HE	MET A	10129.713	14.030	-3.107	1.00 0.00 H
ATOM	114	N	PRO A	11131.483	7.516	-5.359	1.00 0.00 N
ATOM	115	CA	PRO A	11132.643	6.928	-6.035	1.00 0.00 C
ATOM	116	C	PRO A	11133.751	7.950	-6.283	1.00 0.00 C
ATOM	117	O	PRO A	11134.920	7.684	-6.004	1.00 0.00 O

ATOM	118	CB	PRO A	11132.081	6.413	-7.364	1.00	0.00	C
ATOM	119	CG	PRO A	11130.608	6.310	-7.156	1.00	0.00	C
ATOM	120	CD	PRO A	11130.246	7.356	-6.140	1.00	0.00	C
ATOM	121	HA	PRO A	11133.046	6.101	-5.469	1.00	0.00	H
ATOM	122	1HB	PRO A	11132.320	7.112	-8.152	1.00	0.00	H
ATOM	123	2HB	PRO A	11132.514	5.451	-7.589	1.00	0.00	H
ATOM	124	1HG	PRO A	11130.095	6.502	-8.085	1.00	0.00	H
ATOM	125	2HG	PRO A	11130.359	5.326	-6.786	1.00	0.00	H
ATOM	126	1HD	PRO A	11129.976	8.280	-6.630	1.00	0.00	H
ATOM	127	2HD	PRO A	11129.437	7.010	-5.514	1.00	0.00	H
ATOM	128	N	PRO A	12133.404	9.140	-6.810	1.00	0.00	N
ATOM	129	CA	PRO A	12134.388	10.193	-7.083	1.00	0.00	C
ATOM	130	C	PRO A	12135.197	10.557	-5.844	1.00	0.00	C
ATOM	131	O	PRO A	12136.300	11.094	-5.944	1.00	0.00	O
ATOM	132	CB	PRO A	12133.533	11.382	-7.530	1.00	0.00	C
ATOM	133	CG	PRO A	12132.261	10.781	-8.015	1.00	0.00	C
ATOM	134	CD	PRO A	12132.036	9.557	-7.172	1.00	0.00	C
ATOM	135	HA	PRO A	12135.060	9.908	-7.880	1.00	0.00	H
ATOM	136	1HB	PRO A	12133.364	12.042	-6.691	1.00	0.00	H
ATOM	137	2HB	PRO A	12134.040	11.918	-8.318	1.00	0.00	H
ATOM	138	1HG	PRO A	12131.450	11.481	-7.884	1.00	0.00	H
ATOM	139	2HG	PRO A	12132.357	10.506	-9.055	1.00	0.00	H
ATOM	140	1HD	PRO A	12131.462	9.806	-6.292	1.00	0.00	H
ATOM	141	2HD	PRO A	12131.537	8.792	-7.746	1.00	0.00	H
ATOM	142	N	GLY A	13134.641	10.259	-4.673	1.00	0.00	N
ATOM	143	CA	GLY A	13135.325	10.562	-3.429	1.00	0.00	C
ATOM	144	C	GLY A	13136.013	9.350	-2.835	1.00	0.00	C

ATOM	145	O	GLY A	13135.664	8.902	-1.743	1.00	0.00	O
ATOM	146	H	GLY A	13133.758	9.830	-4.653	1.00	0.00	H
ATOM	147	1HA	GLY A	13136.063	11.328	-3.615	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.604	10.938	-2.717	1.00	0.00	H
ATOM	149	N	ASN A	14136.995	8.818	-3.554	1.00	0.00	N
ATOM	150	CA	ASN A	14137.736	7.650	-3.092	1.00	0.00	C
ATOM	151	C	ASN A	14136.803	6.459	-2.890	1.00	0.00	C
ATOM	152	O	ASN A	14136.816	5.818	-1.839	1.00	0.00	O
ATOM	153	CB	ASN A	14138.469	7.970	-1.786	1.00	0.00	C
ATOM	154	CG	ASN A	14139.436	9.126	-1.935	1.00	0.00	C
ATOM	155	OD1	ASN A	14140.104	9.265	-2.961	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.519	9.965	-0.909	1.00	0.00	N
ATOM	157	H	ASN A	14137.228	9.220	-4.417	1.00	0.00	H
ATOM	158	HA	ASN A	14138.463	7.398	-3.848	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.743	8.227	-1.028	1.00	0.00	H
ATOM	160	2HB	ASN A	14139.022	7.098	-1.468	1.00	0.00	H
ATOM	161	1HD2	ASN A	14138.958	9.793	-0.124	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.137	10.722	-0.978	1.00	0.00	H
ATOM	163	N	SER A	15135.996	6.168	-3.905	1.00	0.00	N
ATOM	164	CA	SER A	15135.055	5.054	-3.844	1.00	0.00	C
ATOM	165	C	SER A	15134.001	5.290	-2.766	1.00	0.00	C
ATOM	166	O	SER A	15132.873	5.682	-3.063	1.00	0.00	O
ATOM	167	CB	SER A	15135.798	3.742	-3.575	1.00	0.00	C
ATOM	168	OG	SER A	15136.062	3.049	-4.783	1.00	0.00	O
ATOM	169	H	SER A	15136.034	6.716	-4.718	1.00	0.00	H
ATOM	170	HA	SER A	15134.562	4.986	-4.802	1.00	0.00	H
ATOM	171	1HB	SER A	15136.736	3.957	-3.085	1.00	0.00	H

ATOM	172	2HB	SER A	15135.194	3.114	-2.938	1.00	0.00	H
ATOM	173	HG	SER A	15136.234	2.124	-4.589	1.00	0.00	H
ATOM	174	N	HIS A	16134.376	5.049	-1.514	1.00	0.00	N
ATOM	175	CA	HIS A	16133.462	5.237	-0.393	1.00	0.00	C
ATOM	176	C	HIS A	16134.143	5.997	0.742	1.00	0.00	C
ATOM	177	O	HIS A	16133.685	7.064	1.150	1.00	0.00	O
ATOM	178	CB	HIS A	16132.957	3.883	0.113	1.00	0.00	C
ATOM	179	CG	HIS A	16131.570	3.555	-0.342	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.456	3.728	0.453	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.115	3.061	-1.519	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.377	3.355	-0.214	1.00	0.00	C
ATOM	183	NE2	HIS A	16129.751	2.947	-1.413	1.00	0.00	N
ATOM	184	H	HIS A	16135.289	4.740	-1.339	1.00	0.00	H
ATOM	185	HA	HIS A	16132.622	5.817	-0.744	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.616	3.105	-0.245	1.00	0.00	H
ATOM	187	2HB	HIS A	16132.962	3.883	1.193	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.456	4.074	1.370	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.715	2.805	-2.381	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.364	3.381	0.158	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.161	2.533	-2.078	1.00	0.00	H
ATOM	192	N	GLY A	17135.238	5.440	1.246	1.00	0.00	N
ATOM	193	CA	GLY A	17135.964	6.079	2.329	1.00	0.00	C
ATOM	194	C	GLY A	17137.320	5.446	2.570	1.00	0.00	C
ATOM	195	O	GLY A	17137.588	4.929	3.654	1.00	0.00	O
ATOM	196	H	GLY A	17135.557	4.588	0.881	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.104	7.122	2.087	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.378	6.004	3.233	1.00	0.00	H

ATOM	199	N	LEU A	18138.179	5.487	1.556	1.00	0.00	N
ATOM	200	CA	LEU A	18139.516	4.914	1.663	1.00	0.00	C
ATOM	201	C	LEU A	18140.514	5.950	2.171	1.00	0.00	C
ATOM	202	O	LEU A	18140.889	6.873	1.448	1.00	0.00	O
ATOM	203	CB	LEU A	18139.972	4.374	0.306	1.00	0.00	C
ATOM	204	CG	LEU A	18138.938	3.521	-0.431	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.197	3.545	-1.929	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.957	2.092	0.092	1.00	0.00	C
ATOM	207	H	LEU A	18137.907	5.914	0.717	1.00	0.00	H
ATOM	208	HA	LEU A	18139.471	4.098	2.369	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.231	5.213	-0.323	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.856	3.774	0.460	1.00	0.00	H
ATOM	211	HG	LEU A	18137.954	3.929	-0.256	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.664	2.732	-2.399	1.00	0.00	H
ATOM	213	2HD1	LEU A	18140.255	3.436	-2.114	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.855	4.484	-2.338	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.980	1.770	0.220	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.461	1.443	-0.615	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.445	2.050	1.041	1.00	0.00	H
ATOM	218	N	GLU A	19140.937	5.792	3.420	1.00	0.00	N
ATOM	219	CA	GLU A	19141.892	6.714	4.026	1.00	0.00	C
ATOM	220	C	GLU A	19142.828	5.978	4.980	1.00	0.00	C
ATOM	221	O	GLU A	19142.700	4.771	5.184	1.00	0.00	O
ATOM	222	CB	GLU A	19141.153	7.825	4.774	1.00	0.00	C
ATOM	223	CG	GLU A	19140.096	7.312	5.737	1.00	0.00	C
ATOM	224	CD	GLU A	19140.078	8.078	7.045	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.086	8.792	7.302	1.00	0.00	O

ATOM	226	OE2	GLU A	19141.056	7.963	7.814	1.00	0.00	O
ATOM	227	H	GLU A	19140.601	5.037	3.947	1.00	0.00	H
ATOM	228	HA	GLU A	19142.478	7.153	3.233	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.872	8.403	5.336	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.672	8.469	4.053	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.127	7.406	5.270	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.294	6.271	5.948	1.00	0.00	H
ATOM	233	N	VAL A	20143.770	6.715	5.562	1.00	0.00	N
ATOM	234	CA	VAL A	20144.726	6.133	6.495	1.00	0.00	C
ATOM	235	C	VAL A	20144.014	5.482	7.678	1.00	0.00	C
ATOM	236	O	VAL A	20143.052	6.032	8.215	1.00	0.00	O
ATOM	237	CB	VAL A	20145.712	7.194	7.023	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.786	6.547	7.885	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.337	7.962	5.868	1.00	0.00	C
ATOM	240	H	VAL A	20143.820	7.673	5.360	1.00	0.00	H
ATOM	241	HA	VAL A	20145.291	5.378	5.968	1.00	0.00	H
ATOM	242	HB	VAL A	20145.162	7.893	7.636	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.375	6.316	8.857	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.615	7.229	7.999	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.129	5.638	7.413	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.314	8.318	6.159	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.708	8.802	5.613	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.431	7.310	5.012	1.00	0.00	H
ATOM	249	N	GLY A	21144.493	4.309	8.077	1.00	0.00	N
ATOM	250	CA	GLY A	21143.890	3.603	9.192	1.00	0.00	C
ATOM	251	C	GLY A	21142.852	2.592	8.746	1.00	0.00	C
ATOM	252	O	GLY A	21142.800	1.477	9.261	1.00	0.00	O

ATOM	253	H	GLY A	21145.263	3.919	7.611	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.666	3.088	9.740	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.419	4.321	9.846	1.00	0.00	H
ATOM	256	N	SER A	22142.024	2.985	7.783	1.00	0.00	N
ATOM	257	CA	SER A	22140.981	2.106	7.266	1.00	0.00	C
ATOM	258	C	SER A	22141.573	1.041	6.348	1.00	0.00	C
ATOM	259	O	SER A	22142.497	1.314	5.581	1.00	0.00	O
ATOM	260	CB	SER A	22139.928	2.918	6.510	1.00	0.00	C
ATOM	261	OG	SER A	22139.576	4.090	7.227	1.00	0.00	O
ATOM	262	H	SER A	22142.115	3.887	7.412	1.00	0.00	H
ATOM	263	HA	SER A	22140.512	1.619	8.107	1.00	0.00	H
ATOM	264	1HB	SER A	22140.321	3.206	5.547	1.00	0.00	H
ATOM	265	2HB	SER A	22139.042	2.316	6.372	1.00	0.00	H
ATOM	266	HG	SER A	22140.307	4.712	7.202	1.00	0.00	H
ATOM	267	N	LEU A	23141.037	-0.171	6.433	1.00	0.00	N
ATOM	268	CA	LEU A	23141.513	-1.277	5.610	1.00	0.00	C
ATOM	269	C	LEU A	23141.115	-1.081	4.150	1.00	0.00	C
ATOM	270	O	LEU A	23140.071	-0.500	3.854	1.00	0.00	O
ATOM	271	CB	LEU A	23140.956	-2.603	6.129	1.00	0.00	C
ATOM	272	CG	LEU A	23141.330	-2.942	7.574	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.251	-3.798	8.217	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.675	-3.649	7.623	1.00	0.00	C
ATOM	275	H	LEU A	23140.303	-0.327	7.064	1.00	0.00	H
ATOM	276	HA	LEU A	23142.590	-1.299	5.677	1.00	0.00	H
ATOM	277	1HB	LEU A	23139.878	-2.570	6.056	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.319	-3.396	5.492	1.00	0.00	H
ATOM	279	HG	LEU A	23141.411	-2.026	8.140	1.00	0.00	H

ATOM	280	1HD1	LEU A	23140.197	-3.576	9.273	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.490	-4.843	8.080	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.298	-3.584	7.756	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.218	-3.332	8.501	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.245	-3.402	6.739	1.00	0.00	H
ATOM	285	3HD2	LEU A	23142.519	-4.718	7.662	1.00	0.00	H
ATOM	286	N	ALA A	24141.955	-1.570	3.243	1.00	0.00	N
ATOM	287	CA	ALA A	24141.691	-1.451	1.815	1.00	0.00	C
ATOM	288	C	ALA A	24142.305	-2.615	1.045	1.00	0.00	C
ATOM	289	O	ALA A	24143.292	-3.209	1.480	1.00	0.00	O
ATOM	290	CB	ALA A	24142.226	-0.127	1.289	1.00	0.00	C
ATOM	291	H	ALA A	24142.771	-2.023	3.542	1.00	0.00	H
ATOM	292	HA	ALA A	24140.621	-1.462	1.671	1.00	0.00	H
ATOM	293	1HB	ALA A	24142.507	-0.239	0.251	1.00	0.00	H
ATOM	294	2HB	ALA A	24143.091	0.166	1.866	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.461	0.630	1.375	1.00	0.00	H
ATOM	296	N	GLU A	25141.715	-2.937	-0.102	1.00	0.00	N
ATOM	297	CA	GLU A	25142.205	-4.032	-0.932	1.00	0.00	C
ATOM	298	C	GLU A	25142.605	-3.530	-2.316	1.00	0.00	C
ATOM	299	O	GLU A	25142.089	-2.519	-2.793	1.00	0.00	O
ATOM	300	CB	GLU A	25141.136	-5.119	-1.062	1.00	0.00	C
ATOM	301	CG	GLU A	25141.708	-6.516	-1.245	1.00	0.00	C
ATOM	302	CD	GLU A	25140.729	-7.464	-1.909	1.00	0.00	C
ATOM	303	OE1	GLU A	25139.929	-6.999	-2.749	1.00	0.00	O
ATOM	304	OE2	GLU A	25140.762	-8.671	-1.590	1.00	0.00	O
ATOM	305	H	GLU A	25140.932	-2.428	-0.396	1.00	0.00	H
ATOM	306	HA	GLU A	25143.075	-4.452	-0.449	1.00	0.00	H

ATOM	307	1HB	GLU A	25140.527	-5.117	-0.170	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.512	-4.894	-1.915	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.594	-6.451	-1.858	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.970	-6.913	-0.275	1.00	0.00	H
ATOM	311	N	VAL A	26143.528	-4.243	-2.954	1.00	0.00	N
ATOM	312	CA	VAL A	26143.998	-3.869	-4.282	1.00	0.00	C
ATOM	313	C	VAL A	26143.826	-5.020	-5.268	1.00	0.00	C
ATOM	314	O	VAL A	26144.136	-6.170	-4.955	1.00	0.00	O
ATOM	315	CB	VAL A	26145.480	-3.446	-4.258	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.909	-2.913	-5.616	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.722	-2.410	-3.170	1.00	0.00	C
ATOM	318	H	VAL A	26143.901	-5.039	-2.521	1.00	0.00	H
ATOM	319	HA	VAL A	26143.411	-3.027	-4.621	1.00	0.00	H
ATOM	320	HB	VAL A	26146.078	-4.318	-4.033	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.900	-1.833	-5.598	1.00	0.00	H
ATOM	322	2HG1	VAL A	26145.225	-3.266	-6.374	1.00	0.00	H
ATOM	323	3HG1	VAL A	26146.905	-3.261	-5.841	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.651	-2.631	-2.663	1.00	0.00	H
ATOM	325	2HG2	VAL A	26144.909	-2.434	-2.460	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.781	-1.428	-3.616	1.00	0.00	H
ATOM	327	N	LYS A	27143.330	-4.704	-6.460	1.00	0.00	N
ATOM	328	CA	LYS A	27143.116	-5.712	-7.491	1.00	0.00	C
ATOM	329	C	LYS A	27144.437	-6.118	-8.137	1.00	0.00	C
ATOM	330	O	LYS A	27144.790	-5.631	-9.211	1.00	0.00	O
ATOM	331	CB	LYS A	27142.155	-5.184	-8.558	1.00	0.00	C
ATOM	332	CG	LYS A	27140.694	-5.475	-8.257	1.00	0.00	C
ATOM	333	CD	LYS A	27139.793	-4.342	-8.722	1.00	0.00	C

ATOM	334	CE	LYS A	27138.436	-4.857	-9.172	1.00	0.00	C
ATOM	335	NZ	LYS A	27137.427	-4.798	-8.079	1.00	0.00	N
ATOM	336	H	LYS A	27143.102	-3.769	-6.649	1.00	0.00	H
ATOM	337	HA	LYS A	27142.677	-6.579	-7.021	1.00	0.00	H
ATOM	338	1HB	LYS A	27142.277	-4.114	-8.639	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.403	-5.638	-9.506	1.00	0.00	H
ATOM	340	1HG	LYS A	27140.405	-6.382	-8.767	1.00	0.00	H
ATOM	341	2HG	LYS A	27140.574	-5.604	-7.192	1.00	0.00	H
ATOM	342	1HD	LYS A	27139.650	-3.651	-7.905	1.00	0.00	H
ATOM	343	2HD	LYS A	27140.268	-3.833	-9.549	1.00	0.00	H
ATOM	344	1HE	LYS A	27138.092	-4.255	-10.000	1.00	0.00	H
ATOM	345	2HE	LYS A	27138.544	-5.883	-9.497	1.00	0.00	H
ATOM	346	1HZ	LYS A	27136.494	-4.552	-8.466	1.00	0.00	H
ATOM	347	2HZ	LYS A	27137.700	-4.079	-7.379	1.00	0.00	H
ATOM	348	3HZ	LYS A	27137.361	-5.721	-7.603	1.00	0.00	H
ATOM	349	N	GLU A	28145.162	-7.014	-7.475	1.00	0.00	N
ATOM	350	CA	GLU A	28146.444	-7.487	-7.986	1.00	0.00	C
ATOM	351	C	GLU A	28146.465	-9.010	-8.076	1.00	0.00	C
ATOM	352	O	GLU A	28145.504	-9.678	-7.694	1.00	0.00	O
ATOM	353	CB	GLU A	28147.585	-6.998	-7.090	1.00	0.00	C
ATOM	354	CG	GLU A	28148.729	-6.358	-7.858	1.00	0.00	C
ATOM	355	CD	GLU A	28149.850	-5.889	-6.951	1.00	0.00	C
ATOM	356	OE1	GLU A	28150.027	-4.661	-6.811	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.550	-6.751	-6.378	1.00	0.00	O
ATOM	358	H	GLU A	28144.828	-7.367	-6.625	1.00	0.00	H
ATOM	359	HA	GLU A	28146.577	-7.079	-8.976	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.195	-6.271	-6.394	1.00	0.00	H

ATOM	361	2HB	GLU A	28147.979	-7.838	-6.535	1.00	0.00	H
ATOM	362	1HG	GLU A	28149.129	-7.080	-8.553	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.348	-5.507	-8.404	1.00	0.00	H
ATOM	364	N	ASN A	29147.568	-9.551	-8.582	1.00	0.00	N
ATOM	365	CA	ASN A	29147.716	-10.996	-8.721	1.00	0.00	C
ATOM	366	C	ASN A	29147.613	-11.688	-7.363	1.00	0.00	C
ATOM	367	O	ASN A	29146.752	-12.543	-7.158	1.00	0.00	O
ATOM	368	CB	ASN A	29149.055	-11.331	-9.380	1.00	0.00	C
ATOM	369	CG	ASN A	29148.926	-11.543	-10.876	1.00	0.00	C
ATOM	370	OD1	ASN A	29149.065	-12.662	-11.371	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.660	-10.465	-11.605	1.00	0.00	N
ATOM	372	H	ASN A	29148.301	-8.967	-8.868	1.00	0.00	H
ATOM	373	HA	ASN A	29146.915	-11.351	-9.353	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.747	-10.520	-9.210	1.00	0.00	H
ATOM	375	2HB	ASN A	29149.451	-12.235	-8.939	1.00	0.00	H
ATOM	376	1HD2	ASN A	29148.563	-9.606	-11.144	1.00	0.00	H
ATOM	377	2HD2	ASN A	29148.571	-10.574	-12.575	1.00	0.00	H
ATOM	378	N	PRO A	30148.497	-11.327	-6.416	1.00	0.00	N
ATOM	379	CA	PRO A	30148.502	-11.917	-5.076	1.00	0.00	C
ATOM	380	C	PRO A	30147.380	-11.368	-4.195	1.00	0.00	C
ATOM	381	O	PRO A	30147.416	-10.208	-3.786	1.00	0.00	O
ATOM	382	CB	PRO A	30149.865	-11.505	-4.521	1.00	0.00	C
ATOM	383	CG	PRO A	30150.175	-10.219	-5.206	1.00	0.00	C
ATOM	384	CD	PRO A	30149.559	-10.314	-6.578	1.00	0.00	C
ATOM	385	HA	PRO A	30148.437	-12.993	-5.117	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.797	-11.378	-3.450	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.597	-12.263	-4.755	1.00	0.00	H

ATOM	388	1HG	PRO A	30149.739	-9.397	-4.657	1.00	0.00	H
ATOM	389	2HG	PRO A	30151.244	-10.094	-5.285	1.00	0.00	H
ATOM	390	1HD	PRO A	30149.142	-9.362	-6.870	1.00	0.00	H
ATOM	391	2HD	PRO A	30150.294	-10.640	-7.298	1.00	0.00	H
ATOM	392	N	PRO A	31146.363	-12.196	-3.889	1.00	0.00	N
ATOM	393	CA	PRO A	31145.234	-11.777	-3.052	1.00	0.00	C
ATOM	394	C	PRO A	31145.642	-11.550	-1.601	1.00	0.00	C
ATOM	395	O	PRO A	31145.519	-12.444	-0.764	1.00	0.00	O
ATOM	396	CB	PRO A	31144.257	-12.951	-3.155	1.00	0.00	C
ATOM	397	CG	PRO A	31145.111	-14.127	-3.484	1.00	0.00	C
ATOM	398	CD	PRO A	31146.234	-13.598	-4.331	1.00	0.00	C
ATOM	399	HA	PRO A	31144.767	-10.882	-3.438	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.748	-13.083	-2.212	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.537	-12.757	-3.936	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.499	-14.563	-2.575	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.536	-14.855	-4.037	1.00	0.00	H
ATOM	404	1HD	PRO A	31147.143	-14.148	-4.138	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.974	-13.649	-5.378	1.00	0.00	H
ATOM	406	N	PHE A	32146.130	-10.348	-1.310	1.00	0.00	N
ATOM	407	CA	PHE A	32146.557	-10.002	0.040	1.00	0.00	C
ATOM	408	C	PHE A	32145.562	-9.052	0.699	1.00	0.00	C
ATOM	409	O	PHE A	32144.630	-8.569	0.056	1.00	0.00	O
ATOM	410	CB	PHE A	32147.947	-9.364	0.009	1.00	0.00	C
ATOM	411	CG	PHE A	32148.016	-8.116	-0.824	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.649	-8.124	-2.056	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.447	-6.935	-0.374	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.713	-6.978	-2.825	1.00	0.00	C

ATOM	415	CE2 PHE A	32147.508	-5.785	-1.139	1.00	0.00	C
ATOM	416	CZ PHE A	32148.143	-5.807	-2.366	1.00	0.00	C
ATOM	417	H PHE A	32146.203	-9.678	-2.022	1.00	0.00	H
ATOM	418	HA PHE A	32146.602	-10.913	0.617	1.00	0.00	H
ATOM	419	1HB PHE A	32148.240	-9.107	1.017	1.00	0.00	H
ATOM	420	2HB PHE A	32148.652	-10.075	-0.395	1.00	0.00	H
ATOM	421	HD1 PHE A	32149.095	-9.039	-2.416	1.00	0.00	H
ATOM	422	HD2 PHE A	32146.950	-6.918	0.584	1.00	0.00	H
ATOM	423	HE1 PHE A	32149.211	-6.997	-3.784	1.00	0.00	H
ATOM	424	HE2 PHE A	32147.060	-4.872	-0.778	1.00	0.00	H
ATOM	425	HZ PHE A	32148.192	-4.910	-2.965	1.00	0.00	H
ATOM	426	N TYR A	33145.770	-8.785	1.984	1.00	0.00	N
ATOM	427	CA TYR A	33144.892	-7.892	2.731	1.00	0.00	C
ATOM	428	C TYR A	33145.696	-7.001	3.673	1.00	0.00	C
ATOM	429	O TYR A	33146.335	-7.487	4.607	1.00	0.00	O
ATOM	430	CB TYR A	33143.865	-8.699	3.527	1.00	0.00	C
ATOM	431	CG TYR A	33142.662	-9.121	2.712	1.00	0.00	C
ATOM	432	CD1 TYR A	33141.948	-8.193	1.962	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.243	-10.444	2.691	1.00	0.00	C
ATOM	434	CE1 TYR A	33140.848	-8.576	1.217	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.145	-10.833	1.947	1.00	0.00	C
ATOM	436	CZ TYR A	33140.452	-9.896	1.212	1.00	0.00	C
ATOM	437	OH TYR A	33139.358	-10.279	0.469	1.00	0.00	O
ATOM	438	H TYR A	33146.531	-9.200	2.442	1.00	0.00	H
ATOM	439	HA TYR A	33144.373	-7.267	2.020	1.00	0.00	H
ATOM	440	1HB TYR A	33144.335	-9.592	3.908	1.00	0.00	H
ATOM	441	2HB TYR A	33143.512	-8.102	4.355	1.00	0.00	H

ATOM	442	HD1 TYR A	33142.261	-7.160	1.968	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.788	-11.177	3.268	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.306	-7.840	0.641	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.835	-11.869	1.943	1.00	0.00	H
ATOM	446	HH TYR A	33139.593	-11.028	-0.083	1.00	0.00	H
ATOM	447	N GLY A	34145.660	-5.697	3.422	1.00	0.00	N
ATOM	448	CA GLY A	34146.389	-4.761	4.257	1.00	0.00	C
ATOM	449	C GLY A	34145.568	-3.537	4.613	1.00	0.00	C
ATOM	450	O GLY A	34144.380	-3.465	4.294	1.00	0.00	O
ATOM	451	H GLY A	34145.133	-5.368	2.664	1.00	0.00	H
ATOM	452	1HA GLY A	34146.683	-5.260	5.168	1.00	0.00	H
ATOM	453	2HA GLY A	34147.278	-4.443	3.731	1.00	0.00	H
ATOM	454	N VAL A	35146.200	-2.573	5.275	1.00	0.00	N
ATOM	455	CA VAL A	35145.520	-1.348	5.674	1.00	0.00	C
ATOM	456	C VAL A	35146.266	-0.117	5.168	1.00	0.00	C
ATOM	457	O VAL A	35147.494	-0.110	5.093	1.00	0.00	O
ATOM	458	CB VAL A	35145.376	-1.261	7.207	1.00	0.00	C
ATOM	459	CG1 VAL A	35146.742	-1.264	7.877	1.00	0.00	C
ATOM	460	CG2 VAL A	35144.581	-0.024	7.601	1.00	0.00	C
ATOM	461	H VAL A	35147.147	-2.690	5.499	1.00	0.00	H
ATOM	462	HA VAL A	35144.531	-1.360	5.241	1.00	0.00	H
ATOM	463	HB VAL A	35144.834	-2.131	7.546	1.00	0.00	H
ATOM	464	1HG1 VAL A	35146.735	-0.577	8.711	1.00	0.00	H
ATOM	465	2HG1 VAL A	35147.493	-0.959	7.165	1.00	0.00	H
ATOM	466	3HG1 VAL A	35146.965	-2.258	8.232	1.00	0.00	H
ATOM	467	1HG2 VAL A	35144.998	0.843	7.113	1.00	0.00	H
ATOM	468	2HG2 VAL A	35144.629	0.108	8.672	1.00	0.00	H

ATOM	469	3HG2	VAL A	35143.551	-0.146	7.300	1.00	0.00	H
ATOM	470	N	ILE A	36145.515	0.923	4.822	1.00	0.00	N
ATOM	471	CA	ILE A	36146.105	2.160	4.324	1.00	0.00	C
ATOM	472	C	ILE A	36147.035	2.779	5.362	1.00	0.00	C
ATOM	473	O	ILE A	36146.862	2.574	6.564	1.00	0.00	O
ATOM	474	CB	ILE A	36145.023	3.188	3.939	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.010	2.562	2.977	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.660	4.422	3.315	1.00	0.00	C
ATOM	477	CD1	ILE A	36142.915	3.515	2.548	1.00	0.00	C
ATOM	478	H	ILE A	36144.540	0.859	4.905	1.00	0.00	H
ATOM	479	HA	ILE A	36146.678	1.923	3.439	1.00	0.00	H
ATOM	480	HB	ILE A	36144.512	3.494	4.840	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.525	2.229	2.089	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.544	1.715	3.457	1.00	0.00	H
ATOM	483	1HG2	ILE A	36146.128	5.015	4.087	1.00	0.00	H
ATOM	484	2HG2	ILE A	36144.900	5.009	2.822	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.404	4.117	2.593	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.149	3.548	3.308	1.00	0.00	H
ATOM	487	2HD1	ILE A	36142.486	3.173	1.617	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.330	4.502	2.412	1.00	0.00	H
ATOM	489	N	ARG A	37148.020	3.537	4.891	1.00	0.00	N
ATOM	490	CA	ARG A	37148.977	4.184	5.780	1.00	0.00	C
ATOM	491	C	ARG A	37149.216	5.631	5.364	1.00	0.00	C
ATOM	492	O	ARG A	37148.844	6.563	6.078	1.00	0.00	O
ATOM	493	CB	ARG A	37150.300	3.418	5.782	1.00	0.00	C
ATOM	494	CG	ARG A	37150.144	1.935	6.077	1.00	0.00	C
ATOM	495	CD	ARG A	37150.115	1.667	7.572	1.00	0.00	C

ATOM	496	NE	ARG A	37148.908	2.196	8.201	1.00	0.00	N
ATOM	497	CZ	ARG A	37148.788	2.420	9.508	1.00	0.00	C
ATOM	498	NH1	ARG A	37149.800	2.159	10.327	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.654	2.904	9.997	1.00	0.00	N
ATOM	500	H	ARG A	37148.105	3.662	3.924	1.00	0.00	H
ATOM	501	HA	ARG A	37148.563	4.173	6.778	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.766	3.523	4.813	1.00	0.00	H
ATOM	503	2HB	ARG A	37150.950	3.845	6.532	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.220	1.587	5.641	1.00	0.00	H
ATOM	505	2HG	ARG A	37150.976	1.402	5.640	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.154	0.600	7.734	1.00	0.00	H
ATOM	507	2HD	ARG A	37150.979	2.130	8.025	1.00	0.00	H
ATOM	508	HE	ARG A	37148.145	2.397	7.619	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.657	1.793	9.966	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.704	2.329	11.308	1.00	0.00	H
ATOM	511	1HH2	ARG A	37146.890	3.103	9.384	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.565	3.072	10.979	1.00	0.00	H
ATOM	513	N	TRP A	38149.841	5.814	4.206	1.00	0.00	N
ATOM	514	CA	TRP A	38150.132	7.149	3.697	1.00	0.00	C
ATOM	515	C	TRP A	38149.473	7.373	2.337	1.00	0.00	C
ATOM	516	O	TRP A	38149.599	6.550	1.431	1.00	0.00	O
ATOM	517	CB	TRP A	38151.647	7.361	3.589	1.00	0.00	C
ATOM	518	CG	TRP A	38152.027	8.592	2.820	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.264	9.837	3.329	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.208	8.696	1.403	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.581	10.708	2.314	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.554	10.031	1.123	1.00	0.00	C

ATOM	523	CE3 TRP A	38152.112	7.789	0.344	1.00	0.00	C
ATOM	524	CZ2 TRP A	38152.803	10.479	-0.172	1.00	0.00	C
ATOM	525	CZ3 TRP A	38152.360	8.234	-0.940	1.00	0.00	C
ATOM	526	CH2 TRP A	38152.702	9.569	-1.189	1.00	0.00	C
ATOM	527	H TRP A	38150.114	5.032	3.682	1.00	0.00	H
ATOM	528	HA TRP A	38149.728	7.865	4.398	1.00	0.00	H
ATOM	529	1HB TRP A	38152.062	7.447	4.581	1.00	0.00	H
ATOM	530	2HB TRP A	38152.086	6.508	3.092	1.00	0.00	H
ATOM	531	HD1 TRP A	38152.207	10.086	4.378	1.00	0.00	H
ATOM	532	HE1 TRP A	38152.794	11.659	2.426	1.00	0.00	H
ATOM	533	HE3 TRP A	38151.849	6.756	0.517	1.00	0.00	H
ATOM	534	HZ2 TRP A	38153.065	11.506	-0.381	1.00	0.00	H
ATOM	535	HZ3 TRP A	38152.290	7.547	-1.770	1.00	0.00	H
ATOM	536	HH2 TRP A	38152.887	9.873	-2.209	1.00	0.00	H
ATOM	537	N ILE A	39148.781	8.499	2.204	1.00	0.00	N
ATOM	538	CA ILE A	39148.111	8.845	0.957	1.00	0.00	C
ATOM	539	C ILE A	39148.616	10.185	0.433	1.00	0.00	C
ATOM	540	O ILE A	39148.281	11.239	0.974	1.00	0.00	O
ATOM	541	CB ILE A	39146.583	8.917	1.137	1.00	0.00	C
ATOM	542	CG1 ILE A	39146.066	7.647	1.816	1.00	0.00	C
ATOM	543	CG2 ILE A	39145.898	9.121	-0.206	1.00	0.00	C
ATOM	544	CD1 ILE A	39144.781	7.854	2.588	1.00	0.00	C
ATOM	545	H ILE A	39148.726	9.117	2.963	1.00	0.00	H
ATOM	546	HA ILE A	39148.335	8.077	0.231	1.00	0.00	H
ATOM	547	HB ILE A	39146.356	9.767	1.761	1.00	0.00	H
ATOM	548	1HG1 ILE A	39145.881	6.894	1.064	1.00	0.00	H
ATOM	549	2HG1 ILE A	39146.814	7.285	2.506	1.00	0.00	H

ATOM	550	1HG2	ILE A	39146.213	8.348	-0.892	1.00	0.00	H
ATOM	551	2HG2	ILE A	39146.169	10.088	-0.605	1.00	0.00	H
ATOM	552	3HG2	ILE A	39144.827	9.073	-0.076	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.535	6.952	3.127	1.00	0.00	H
ATOM	554	2HD1	ILE A	39143.983	8.092	1.900	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.908	8.668	3.286	1.00	0.00	H
ATOM	556	N	GLY A	40149.429	10.140	-0.617	1.00	0.00	N
ATOM	557	CA	GLY A	40149.970	11.360	-1.185	1.00	0.00	C
ATOM	558	C	GLY A	40150.570	11.152	-2.561	1.00	0.00	C
ATOM	559	O	GLY A	40150.382	10.103	-3.177	1.00	0.00	O
ATOM	560	H	GLY A	40149.667	9.272	-1.006	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.179	12.091	-1.257	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.735	11.740	-0.525	1.00	0.00	H
ATOM	563	N	GLN A	41151.290	12.159	-3.044	1.00	0.00	N
ATOM	564	CA	GLN A	41151.919	12.094	-4.355	1.00	0.00	C
ATOM	565	C	GLN A	41153.396	12.478	-4.267	1.00	0.00	C
ATOM	566	O	GLN A	41153.728	13.616	-3.935	1.00	0.00	O
ATOM	567	CB	GLN A	41151.195	13.024	-5.325	1.00	0.00	C
ATOM	568	CG	GLN A	41149.683	12.862	-5.309	1.00	0.00	C
ATOM	569	CD	GLN A	41148.955	14.188	-5.405	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.905	14.953	-4.443	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.387	14.464	-6.571	1.00	0.00	N
ATOM	572	H	GLN A	41151.398	12.969	-2.505	1.00	0.00	H
ATOM	573	HA	GLN A	41151.839	11.080	-4.713	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.427	14.046	-5.067	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.546	12.826	-6.325	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.390	12.247	-6.145	1.00	0.00	H

ATOM	577	2HG	GLN A	41149.396	12.376	-4.388	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.468	13.805	-7.292	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.910	15.314	-6.665	1.00	0.00	H
ATOM	580	N	PRO A	42154.309	11.532	-4.559	1.00	0.00	N
ATOM	581	CA	PRO A	42155.752	11.787	-4.505	1.00	0.00	C
ATOM	582	C	PRO A	42156.172	12.938	-5.414	1.00	0.00	C
ATOM	583	O	PRO A	42155.454	13.294	-6.350	1.00	0.00	O
ATOM	584	CB	PRO A	42156.371	10.471	-4.989	1.00	0.00	C
ATOM	585	CG	PRO A	42155.320	9.444	-4.752	1.00	0.00	C
ATOM	586	CD	PRO A	42154.010	10.147	-4.961	1.00	0.00	C
ATOM	587	HA	PRO A	42156.079	11.991	-3.496	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.616	10.552	-6.039	1.00	0.00	H
ATOM	589	2HB	PRO A	42157.265	10.260	-4.420	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.429	8.634	-5.458	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.389	9.074	-3.739	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.719	10.100	-6.000	1.00	0.00	H
ATOM	593	2HD	PRO A	42153.244	9.717	-4.331	1.00	0.00	H
ATOM	594	N	PRO A	43157.345	13.537	-5.151	1.00	0.00	N
ATOM	595	CA	PRO A	43157.858	14.653	-5.950	1.00	0.00	C
ATOM	596	C	PRO A	43158.331	14.206	-7.328	1.00	0.00	C
ATOM	597	O	PRO A	43159.507	13.894	-7.520	1.00	0.00	O
ATOM	598	CB	PRO A	43159.035	15.169	-5.124	1.00	0.00	C
ATOM	599	CG	PRO A	43159.493	13.989	-4.340	1.00	0.00	C
ATOM	600	CD	PRO A	43158.261	13.173	-4.054	1.00	0.00	C
ATOM	601	HA	PRO A	43157.120	15.433	-6.060	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.809	15.530	-5.785	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.703	15.968	-4.478	1.00	0.00	H

ATOM	604	1HG	PRO A	43160.198	13.412	-4.922	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.948	14.316	-3.417	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.493	12.119	-4.080	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.843	13.445	-3.096	1.00	0.00	H
ATOM	608	N	GLY A	44157.411	14.178	-8.286	1.00	0.00	N
ATOM	609	CA	GLY A	44157.758	13.769	-9.633	1.00	0.00	C
ATOM	610	C	GLY A	44156.560	13.280	-10.418	1.00	0.00	C
ATOM	611	O	GLY A	44156.327	13.716	-11.546	1.00	0.00	O
ATOM	612	H	GLY A	44156.490	14.438	-8.076	1.00	0.00	H
ATOM	613	1HA	GLY A	44158.194	14.610	-10.151	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.488	12.976	-9.579	1.00	0.00	H
ATOM	615	N	LEU A	45155.794	12.370	-9.824	1.00	0.00	N
ATOM	616	CA	LEU A	45154.613	11.822	-10.479	1.00	0.00	C
ATOM	617	C	LEU A	45153.363	12.082	-9.648	1.00	0.00	C
ATOM	618	O	LEU A	45153.203	11.525	-8.562	1.00	0.00	O
ATOM	619	CB	LEU A	45154.783	10.318	-10.708	1.00	0.00	C
ATOM	620	CG	LEU A	45155.251	9.525	-9.486	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.856	8.060	-9.614	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.757	9.664	-9.304	1.00	0.00	C
ATOM	623	H	LEU A	45156.030	12.060	-8.922	1.00	0.00	H
ATOM	624	HA	LEU A	45154.505	12.313	-11.435	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.834	9.915	-11.032	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.504	10.175	-11.499	1.00	0.00	H
ATOM	627	HG	LEU A	45154.770	9.923	-8.604	1.00	0.00	H
ATOM	628	1HD1	LEU A	45154.124	7.818	-8.858	1.00	0.00	H
ATOM	629	2HD1	LEU A	45155.729	7.438	-9.480	1.00	0.00	H
ATOM	630	3HD1	LEU A	45154.437	7.883	-10.593	1.00	0.00	H

ATOM	631	1HD2	LEU A	45156.974	9.910	-8.275	1.00	0.00	H
ATOM	632	2HD2	LEU A	45157.127	10.451	-9.947	1.00	0.00	H
ATOM	633	3HD2	LEU A	45157.239	8.733	-9.562	1.00	0.00	H
ATOM	634	N	ASN A	46152.477	12.930	-10.162	1.00	0.00	N
ATOM	635	CA	ASN A	46151.245	13.251	-9.454	1.00	0.00	C
ATOM	636	C	ASN A	46150.273	12.078	-9.511	1.00	0.00	C
ATOM	637	O	ASN A	46149.690	11.790	-10.556	1.00	0.00	O
ATOM	638	CB	ASN A	46150.597	14.498	-10.061	1.00	0.00	C
ATOM	639	CG	ASN A	46149.341	14.917	-9.325	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.358	15.856	-8.529	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.241	14.221	-9.587	1.00	0.00	N
ATOM	642	H	ASN A	46152.654	13.344	-11.032	1.00	0.00	H
ATOM	643	HA	ASN A	46151.494	13.450	-8.423	1.00	0.00	H
ATOM	644	1HB	ASN A	46151.301	15.315	-10.025	1.00	0.00	H
ATOM	645	2HB	ASN A	46150.338	14.296	-11.091	1.00	0.00	H
ATOM	646	1HD2	ASN A	46148.301	13.486	-10.233	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.413	14.471	-9.125	1.00	0.00	H
ATOM	648	N	GLU A	47150.105	11.406	-8.378	1.00	0.00	N
ATOM	649	CA	GLU A	47149.205	10.262	-8.289	1.00	0.00	C
ATOM	650	C	GLU A	47148.956	9.884	-6.833	1.00	0.00	C
ATOM	651	O	GLU A	47149.896	9.621	-6.083	1.00	0.00	O
ATOM	652	CB	GLU A	47149.782	9.066	-9.049	1.00	0.00	C
ATOM	653	CG	GLU A	47151.289	8.916	-8.907	1.00	0.00	C
ATOM	654	CD	GLU A	47151.881	7.979	-9.941	1.00	0.00	C
ATOM	655	OE1	GLU A	47152.122	8.429	-11.081	1.00	0.00	O
ATOM	656	OE2	GLU A	47152.104	6.795	-9.612	1.00	0.00	O
ATOM	657	H	GLU A	47150.599	11.686	-7.580	1.00	0.00	H

ATOM	658	HA	GLU A	47148.266	10.545	-8.740	1.00	0.00	H
ATOM	659	1HB	GLU A	47149.317	8.163	-8.682	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.550	9.176	-10.099	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.746	9.887	-9.021	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.509	8.529	-7.924	1.00	0.00	H
ATOM	663	N	VAL A	48147.688	9.850	-6.439	1.00	0.00	N
ATOM	664	CA	VAL A	48147.331	9.494	-5.072	1.00	0.00	C
ATOM	665	C	VAL A	48147.655	8.030	-4.795	1.00	0.00	C
ATOM	666	O	VAL A	48146.912	7.133	-5.191	1.00	0.00	O
ATOM	667	CB	VAL A	48145.835	9.739	-4.796	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.527	9.554	-3.319	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.427	11.128	-5.265	1.00	0.00	C
ATOM	670	H	VAL A	48146.979	10.064	-7.080	1.00	0.00	H
ATOM	671	HA	VAL A	48147.908	10.113	-4.401	1.00	0.00	H
ATOM	672	HB	VAL A	48145.263	9.012	-5.353	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.685	8.522	-3.044	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.498	9.824	-3.129	1.00	0.00	H
ATOM	675	3HG1	VAL A	48146.178	10.186	-2.733	1.00	0.00	H
ATOM	676	1HG2	VAL A	48145.171	11.092	-6.314	1.00	0.00	H
ATOM	677	2HG2	VAL A	48146.248	11.813	-5.118	1.00	0.00	H
ATOM	678	3HG2	VAL A	48144.572	11.462	-4.697	1.00	0.00	H
ATOM	679	N	LEU A	49148.771	7.795	-4.114	1.00	0.00	N
ATOM	680	CA	LEU A	49149.196	6.439	-3.787	1.00	0.00	C
ATOM	681	C	LEU A	49149.018	6.158	-2.301	1.00	0.00	C
ATOM	682	O	LEU A	49149.659	6.789	-1.460	1.00	0.00	O
ATOM	683	CB	LEU A	49150.657	6.228	-4.185	1.00	0.00	C
ATOM	684	CG	LEU A	49150.989	6.568	-5.640	1.00	0.00	C

ATOM	685	CD1	LEU A	49152.472	6.871	-5.792	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.580	5.427	-6.559	1.00	0.00	C
ATOM	687	H	LEU A	49149.325	8.551	-3.824	1.00	0.00	H
ATOM	688	HA	LEU A	49148.577	5.754	-4.347	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.275	6.841	-3.544	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.909	5.192	-4.016	1.00	0.00	H
ATOM	691	HG	LEU A	49150.437	7.449	-5.931	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.882	7.153	-4.833	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.604	7.682	-6.492	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.984	5.993	-6.157	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.667	4.980	-6.195	1.00	0.00	H
ATOM	696	2HD2	LEU A	49151.362	4.682	-6.578	1.00	0.00	H
ATOM	697	3HD2	LEU A	49150.421	5.808	-7.556	1.00	0.00	H
ATOM	698	N	ALAA	50148.145	5.210	-1.983	1.00	0.00	N
ATOM	699	CA	ALAA	50147.887	4.849	-0.596	1.00	0.00	C
ATOM	700	C	ALAA	50148.794	3.707	-0.151	1.00	0.00	C
ATOM	701	O	ALAA	50148.698	2.591	-0.660	1.00	0.00	O
ATOM	702	CB	ALAA	50146.426	4.471	-0.412	1.00	0.00	C
ATOM	703	H	ALAA	50147.665	4.741	-2.698	1.00	0.00	H
ATOM	704	HA	ALAA	50148.091	5.718	0.013	1.00	0.00	H
ATOM	705	1HB	ALAA	50146.071	4.857	0.531	1.00	0.00	H
ATOM	706	2HB	ALAA	50146.329	3.395	-0.421	1.00	0.00	H
ATOM	707	3HB	ALAA	50145.841	4.890	-1.217	1.00	0.00	H
ATOM	708	N	GLY A	51149.675	3.995	0.801	1.00	0.00	N
ATOM	709	CA	GLY A	51150.587	2.981	1.299	1.00	0.00	C
ATOM	710	C	GLY A	51149.892	1.946	2.160	1.00	0.00	C
ATOM	711	O	GLY A	51149.589	2.200	3.325	1.00	0.00	O

ATOM	712	H	GLY A	51149.707	4.902	1.170	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.047	2.483	0.458	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.356	3.462	1.885	1.00	0.00	H
ATOM	715	N	LEU A	52149.638	0.775	1.585	1.00	0.00	N
ATOM	716	CA	LEU A	52148.973	-0.303	2.309	1.00	0.00	C
ATOM	717	C	LEU A	52149.989	-1.169	3.048	1.00	0.00	C
ATOM	718	O	LEU A	52151.096	-1.398	2.561	1.00	0.00	O
ATOM	719	CB	LEU A	52148.157	-1.166	1.345	1.00	0.00	C
ATOM	720	CG	LEU A	52146.971	-0.456	0.688	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.473	-1.249	-0.511	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.850	-0.249	1.695	1.00	0.00	C
ATOM	723	H	LEU A	52149.904	0.632	0.653	1.00	0.00	H
ATOM	724	HA	LEU A	52148.307	0.145	3.030	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.816	-1.520	0.565	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.780	-2.018	1.889	1.00	0.00	H
ATOM	727	HG	LEU A	52147.291	0.514	0.337	1.00	0.00	H
ATOM	728	1HD1	LEU A	52147.292	-1.809	-0.937	1.00	0.00	H
ATOM	729	2HD1	LEU A	52146.077	-0.569	-1.252	1.00	0.00	H
ATOM	730	3HD1	LEU A	52145.696	-1.929	-0.195	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.336	-1.185	1.860	1.00	0.00	H
ATOM	732	2HD2	LEU A	52145.154	0.482	1.314	1.00	0.00	H
ATOM	733	3HD2	LEU A	52146.266	0.102	2.628	1.00	0.00	H
ATOM	734	N	GLU A	53149.603	-1.646	4.227	1.00	0.00	N
ATOM	735	CA	GLU A	53150.479	-2.487	5.035	1.00	0.00	C
ATOM	736	C	GLU A	53149.945	-3.914	5.110	1.00	0.00	C
ATOM	737	O	GLU A	53148.905	-4.167	5.719	1.00	0.00	O
ATOM	738	CB	GLU A	53150.619	-1.908	6.444	1.00	0.00	C

ATOM	739	CG	GLU A	53151.548	-2.709	7.342	1.00	0.00	C
ATOM	740	CD	GLU A	53151.003	-2.872	8.747	1.00	0.00	C
ATOM	741	OE1	GLU A	53150.405	-3.929	9.034	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.176	-1.940	9.563	1.00	0.00	O
ATOM	743	H	GLU A	53148.708	-1.428	4.562	1.00	0.00	H
ATOM	744	HA	GLU A	53151.451	-2.503	4.564	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.004	-0.902	6.370	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.644	-1.877	6.907	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.686	-3.690	6.911	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.500	-2.203	7.396	1.00	0.00	H
ATOM	749	N	LEU A	54150.663	-4.842	4.488	1.00	0.00	N
ATOM	750	CA	LEU A	54150.262	-6.244	4.484	1.00	0.00	C
ATOM	751	C	LEU A	54150.392	-6.851	5.878	1.00	0.00	C
ATOM	752	O	LEU A	54151.214	-6.411	6.682	1.00	0.00	O
ATOM	753	CB	LEU A	54151.110	-7.037	3.488	1.00	0.00	C
ATOM	754	CG	LEU A	54151.206	-6.425	2.090	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.397	-6.999	1.338	1.00	0.00	C
ATOM	756	CD2	LEU A	54149.919	-6.664	1.315	1.00	0.00	C
ATOM	757	H	LEU A	54151.483	-4.580	4.020	1.00	0.00	H
ATOM	758	HA	LEU A	54149.227	-6.292	4.180	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.108	-7.127	3.890	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.687	-8.026	3.396	1.00	0.00	H
ATOM	761	HG	LEU A	54151.352	-5.358	2.180	1.00	0.00	H
ATOM	762	1HD1	LEU A	54152.143	-7.976	0.952	1.00	0.00	H
ATOM	763	2HD1	LEU A	54153.239	-7.086	2.009	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.656	-6.345	0.519	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.250	-5.828	1.463	1.00	0.00	H

ATOM	766	2HD2	LEU A	54149.448	-7.569	1.667	1.00	0.00	H
ATOM	767	3HD2	LEU A	54150.145	-6.761	0.263	1.00	0.00	H
ATOM	768	N	GLU A	55149.577	-7.864	6.156	1.00	0.00	N
ATOM	769	CA	GLU A	55149.603	-8.531	7.451	1.00	0.00	C
ATOM	770	C	GLU A	55150.652	-9.638	7.472	1.00	0.00	C
ATOM	771	O	GLU A	55151.247	-9.925	8.511	1.00	0.00	O
ATOM	772	CB	GLU A	55148.225	-9.112	7.777	1.00	0.00	C
ATOM	773	CG	GLU A	55147.239	-8.081	8.300	1.00	0.00	C
ATOM	774	CD	GLU A	55147.170	-8.058	9.815	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.195	-8.603	10.374	1.00	0.00	O
ATOM	776	OE2	GLU A	55148.091	-7.495	10.444	1.00	0.00	O
ATOM	777	H	GLU A	55148.945	-8.169	5.473	1.00	0.00	H
ATOM	778	HA	GLU A	55149.859	-7.795	8.199	1.00	0.00	H
ATOM	779	1HB	GLU A	55147.812	-9.551	6.880	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.339	-9.882	8.525	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.543	-7.103	7.955	1.00	0.00	H
ATOM	782	2HG	GLU A	55146.258	-8.311	7.913	1.00	0.00	H
ATOM	783	N	ASP A	56150.874	-10.258	6.317	1.00	0.00	N
ATOM	784	CA	ASP A	56151.851	-11.333	6.202	1.00	0.00	C
ATOM	785	C	ASP A	56153.173	-10.811	5.649	1.00	0.00	C
ATOM	786	O	ASP A	56153.208	-10.169	4.599	1.00	0.00	O
ATOM	787	CB	ASP A	56151.313	-12.446	5.301	1.00	0.00	C
ATOM	788	CG	ASP A	56150.352	-13.365	6.029	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.236	-13.588	5.512	1.00	0.00	O
ATOM	790	OD2	ASP A	56150.715	-13.864	7.114	1.00	0.00	O
ATOM	791	H	ASP A	56150.368	-9.984	5.523	1.00	0.00	H
ATOM	792	HA	ASP A	56152.022	-11.733	7.190	1.00	0.00	H

ATOM	793	1HB	ASP A	56150.793 -12.004	4.464	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.140 -13.036	4.934	1.00	0.00	H
ATOM	795	N	GLU A	57154.259 -11.088	6.363	1.00	0.00	N
ATOM	796	CA	GLU A	57155.584 -10.645	5.943	1.00	0.00	C
ATOM	797	C	GLU A	57156.033 -11.387	4.689	1.00	0.00	C
ATOM	798	O	GLU A	57156.555 -12.499	4.766	1.00	0.00	O
ATOM	799	CB	GLU A	57156.597 -10.862	7.068	1.00	0.00	C
ATOM	800	CG	GLU A	57156.634 -9.728	8.079	1.00	0.00	C
ATOM	801	CD	GLU A	57157.934 -9.686	8.859	1.00	0.00	C
ATOM	802	OE1	GLU A	57158.886 -9.025	8.391	1.00	0.00	O
ATOM	803	OE2	GLU A	57158.001 -10.312	9.938	1.00	0.00	O
ATOM	804	H	GLU A	57154.167 -11.603	7.192	1.00	0.00	H
ATOM	805	HA	GLU A	57155.525 -9.590	5.722	1.00	0.00	H
ATOM	806	1HB	GLU A	57156.348 -11.774	7.591	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.582 -10.963	6.636	1.00	0.00	H
ATOM	808	1HG	GLU A	57156.517 -8.792	7.557	1.00	0.00	H
ATOM	809	2HG	GLU A	57155.819 -9.856	8.776	1.00	0.00	H
ATOM	810	N	CYS A	58155.825 -10.764	3.533	1.00	0.00	N
ATOM	811	CA	CYS A	58156.210 -11.364	2.261	1.00	0.00	C
ATOM	812	C	CYS A	58157.455 -10.689	1.695	1.00	0.00	C
ATOM	813	O	CYS A	58157.512 -9.465	1.580	1.00	0.00	O
ATOM	814	CB	CYS A	58155.060 -11.263	1.258	1.00	0.00	C
ATOM	815	SG	CYS A	58155.200 -12.400	-0.142	1.00	0.00	S
ATOM	816	H	CYS A	58155.405 -9.879	3.536	1.00	0.00	H
ATOM	817	HA	CYS A	58156.429 -12.406	2.440	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.131 -11.480	1.763	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.023 -10.257	0.864	1.00	0.00	H

ATOM	820	HG	CYS A	58155.346	-13.282	0.206	1.00	0.00	H
ATOM	821	N	ALA A	59158.450	-11.497	1.343	1.00	0.00	N
ATOM	822	CA	ALA A	59159.695	-10.978	0.787	1.00	0.00	C
ATOM	823	C	ALA A	59159.453	-10.283	-0.548	1.00	0.00	C
ATOM	824	O	ALA A	59158.956	-10.893	-1.495	1.00	0.00	O
ATOM	825	CB	ALA A	59160.709	-12.100	0.625	1.00	0.00	C
ATOM	826	H	ALA A	59158.345	-12.464	1.458	1.00	0.00	H
ATOM	827	HA	ALA A	59160.097	-10.259	1.487	1.00	0.00	H
ATOM	828	1HB	ALA A	59161.226	-12.256	1.561	1.00	0.00	H
ATOM	829	2HB	ALA A	59161.421	-11.833	-0.141	1.00	0.00	H
ATOM	830	3HB	ALA A	59160.197	-13.008	0.341	1.00	0.00	H
ATOM	831	N	GLY A	60159.808	-9.005	-0.618	1.00	0.00	N
ATOM	832	CA	GLY A	60159.622	-8.249	-1.842	1.00	0.00	C
ATOM	833	C	GLY A	60159.105	-6.847	-1.587	1.00	0.00	C
ATOM	834	O	GLY A	60159.364	-5.931	-2.367	1.00	0.00	O
ATOM	835	H	GLY A	60160.200	-8.570	0.169	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.568	-8.184	-2.359	1.00	0.00	H
ATOM	837	2HA	GLY A	60158.916	-8.772	-2.471	1.00	0.00	H
ATOM	838	N	CYS A	61158.372	-6.679	-0.491	1.00	0.00	N
ATOM	839	CA	CYS A	61157.818	-5.378	-0.135	1.00	0.00	C
ATOM	840	C	CYS A	61158.817	-4.564	0.680	1.00	0.00	C
ATOM	841	O	CYS A	61159.828	-5.091	1.147	1.00	0.00	O
ATOM	842	CB	CYS A	61156.519	-5.553	0.656	1.00	0.00	C
ATOM	843	SG	CYS A	61155.273	-6.557	-0.185	1.00	0.00	S
ATOM	844	H	CYS A	61158.200	-7.447	0.092	1.00	0.00	H
ATOM	845	HA	CYS A	61157.602	-4.848	-1.050	1.00	0.00	H
ATOM	846	1HB	CYS A	61156.742	-6.029	1.598	1.00	0.00	H

ATOM	847	2HB	CYS A	61156.087	-4.581	0.843	1.00	0.00	H
ATOM	848	HG	CYS A	61154.755	-7.009	0.485	1.00	0.00	H
ATOM	849	N	THR A	62158.529	-3.278	0.848	1.00	0.00	N
ATOM	850	CA	THR A	62159.402	-2.391	1.608	1.00	0.00	C
ATOM	851	C	THR A	62158.917	-2.249	3.047	1.00	0.00	C
ATOM	852	O	THR A	62157.942	-2.885	3.448	1.00	0.00	O
ATOM	853	CB	THR A	62159.471	-1.016	0.942	1.00	0.00	C
ATOM	854	OG1	THR A	62158.253	-0.718	0.283	1.00	0.00	O
ATOM	855	CG2	THR A	62160.584	-0.898	-0.076	1.00	0.00	C
ATOM	856	H	THR A	62157.709	-2.916	0.453	1.00	0.00	H
ATOM	857	HA	THR A	62160.390	-2.827	1.616	1.00	0.00	H
ATOM	858	HB	THR A	62159.637	-0.267	1.703	1.00	0.00	H
ATOM	859	HG1	THR A	62158.243	0.209	0.033	1.00	0.00	H
ATOM	860	1HG2	THR A	62161.538	-0.993	0.421	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.526	0.064	-0.563	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.483	-1.681	-0.812	1.00	0.00	H
ATOM	863	N	ASP A	63159.602	-1.412	3.818	1.00	0.00	N
ATOM	864	CA	ASP A	63159.240	-1.185	5.212	1.00	0.00	C
ATOM	865	C	ASP A	63158.612	0.192	5.394	1.00	0.00	C
ATOM	866	O	ASP A	63158.751	0.814	6.448	1.00	0.00	O
ATOM	867	CB	ASP A	63160.473	-1.319	6.108	1.00	0.00	C
ATOM	868	CG	ASP A	63161.586	-0.372	5.706	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.107	-0.513	4.580	1.00	0.00	O
ATOM	870	OD2	ASP A	63161.935	0.512	6.517	1.00	0.00	O
ATOM	871	H	ASP A	63160.370	-0.933	3.440	1.00	0.00	H
ATOM	872	HA	ASP A	63158.518	-1.938	5.493	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.193	-1.104	7.129	1.00	0.00	H

ATOM	874	2HB	ASP A	63160.846	-2.331	6.048	1.00	0.00	H
ATOM	875	N	GLY A	64157.919	0.662	4.363	1.00	0.00	N
ATOM	876	CA	GLY A	64157.278	1.963	4.429	1.00	0.00	C
ATOM	877	C	GLY A	64158.053	3.031	3.681	1.00	0.00	C
ATOM	878	O	GLY A	64158.129	4.177	4.125	1.00	0.00	O
ATOM	879	H	GLY A	64157.841	0.122	3.548	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.289	1.887	4.004	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.192	2.256	5.466	1.00	0.00	H
ATOM	882	N	THR A	65158.628	2.654	2.544	1.00	0.00	N
ATOM	883	CA	THR A	65159.401	3.587	1.733	1.00	0.00	C
ATOM	884	C	THR A	65159.066	3.428	0.253	1.00	0.00	C
ATOM	885	O	THR A	65159.267	2.360	-0.328	1.00	0.00	O
ATOM	886	CB	THR A	65160.898	3.371	1.955	1.00	0.00	C
ATOM	887	OG1	THR A	65161.198	1.990	2.046	1.00	0.00	O
ATOM	888	CG2	THR A	65161.419	4.037	3.210	1.00	0.00	C
ATOM	889	H	THR A	65158.532	1.726	2.243	1.00	0.00	H
ATOM	890	HA	THR A	65159.141	4.589	2.042	1.00	0.00	H
ATOM	891	HB	THR A	65161.439	3.780	1.113	1.00	0.00	H
ATOM	892	HG1	THR A	65160.877	1.539	1.261	1.00	0.00	H
ATOM	893	1HG2	THR A	65161.665	5.067	2.995	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.303	3.520	3.551	1.00	0.00	H
ATOM	895	3HG2	THR A	65160.661	4.001	3.978	1.00	0.00	H
ATOM	896	N	PHE A	66158.556	4.496	-0.352	1.00	0.00	N
ATOM	897	CA	PHE A	66158.193	4.473	-1.764	1.00	0.00	C
ATOM	898	C	PHE A	66159.281	5.122	-2.615	1.00	0.00	C
ATOM	899	O	PHE A	66159.440	6.343	-2.613	1.00	0.00	O
ATOM	900	CB	PHE A	66156.862	5.195	-1.982	1.00	0.00	C

ATOM	901	CG	PHE A	66156.296	5.008	-3.360	1.00	0.00	C
ATOM	902	CD1	PHE A	66155.867	3.760	-3.784	1.00	0.00	C
ATOM	903	CD2	PHE A	66156.194	6.080	-4.233	1.00	0.00	C
ATOM	904	CE1	PHE A	66155.346	3.585	-5.052	1.00	0.00	C
ATOM	905	CE2	PHE A	66155.674	5.910	-5.502	1.00	0.00	C
ATOM	906	CZ	PHE A	66155.249	4.662	-5.912	1.00	0.00	C
ATOM	907	H	PHE A	66158.419	5.317	0.164	1.00	0.00	H
ATOM	908	HA	PHE A	66158.086	3.442	-2.063	1.00	0.00	H
ATOM	909	1HB	PHE A	66156.138	4.821	-1.272	1.00	0.00	H
ATOM	910	2HB	PHE A	66157.004	6.254	-1.820	1.00	0.00	H
ATOM	911	HD1	PHE A	66155.942	2.918	-3.112	1.00	0.00	H
ATOM	912	HD2	PHE A	66156.525	7.056	-3.913	1.00	0.00	H
ATOM	913	HE1	PHE A	66155.016	2.608	-5.371	1.00	0.00	H
ATOM	914	HE2	PHE A	66155.599	6.754	-6.172	1.00	0.00	H
ATOM	915	HZ	PHE A	66154.843	4.527	-6.904	1.00	0.00	H
ATOM	916	N	ARG A	67160.027	4.296	-3.341	1.00	0.00	N
ATOM	917	CA	ARG A	67161.100	4.789	-4.198	1.00	0.00	C
ATOM	918	C	ARG A	67162.157	5.521	-3.378	1.00	0.00	C
ATOM	919	O	ARG A	67162.675	6.557	-3.798	1.00	0.00	O
ATOM	920	CB	ARG A	67160.534	5.719	-5.274	1.00	0.00	C
ATOM	921	CG	ARG A	67159.459	5.073	-6.133	1.00	0.00	C
ATOM	922	CD	ARG A	67159.356	5.744	-7.493	1.00	0.00	C
ATOM	923	NE	ARG A	67159.127	4.777	-8.564	1.00	0.00	N
ATOM	924	CZ	ARG A	67159.155	5.084	-9.859	1.00	0.00	C
ATOM	925	NH1	ARG A	67159.400	6.331	-10.247	1.00	0.00	N
ATOM	926	NH2	ARG A	67158.938	4.145	-10.769	1.00	0.00	N
ATOM	927	H	ARG A	67159.851	3.333	-3.302	1.00	0.00	H

ATOM	928	HA	ARG A	67161.559	3.937	-4.677	1.00	0.00	H
ATOM	929	1HB	ARG A	67160.107	6.587	-4.794	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.340	6.035	-5.920	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.705	4.031	-6.275	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.509	5.156	-5.626	1.00	0.00	H
ATOM	933	1HD	ARG A	67158.534	6.444	-7.473	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.275	6.275	-7.690	1.00	0.00	H
ATOM	935	HE	ARG A	67158.944	3.850	-8.305	1.00	0.00	H
ATOM	936	1HH1	ARG A	67159.565	7.044	-9.566	1.00	0.00	H
ATOM	937	2HH1	ARG A	67159.421	6.555	-11.221	1.00	0.00	H
ATOM	938	1HH2	ARG A	67158.753	3.205	-10.481	1.00	0.00	H
ATOM	939	2HH2	ARG A	67158.958	4.375	-11.741	1.00	0.00	H
ATOM	940	N	GLY A	68162.473	4.977	-2.208	1.00	0.00	N
ATOM	941	CA	GLY A	68163.468	5.592	-1.349	1.00	0.00	C
ATOM	942	C	GLY A	68162.935	6.814	-0.627	1.00	0.00	C
ATOM	943	O	GLY A	68163.691	7.728	-0.297	1.00	0.00	O
ATOM	944	H	GLY A	68162.027	4.152	-1.926	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.792	4.868	-0.617	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.315	5.885	-1.950	1.00	0.00	H
ATOM	947	N	THR A	69161.629	6.830	-0.382	1.00	0.00	N
ATOM	948	CA	THR A	69160.994	7.950	0.305	1.00	0.00	C
ATOM	949	C	THR A	69160.067	7.454	1.411	1.00	0.00	C
ATOM	950	O	THR A	69158.900	7.147	1.164	1.00	0.00	O
ATOM	951	CB	THR A	69160.209	8.807	-0.689	1.00	0.00	C
ATOM	952	OG1	THR A	69160.975	9.048	-1.855	1.00	0.00	O
ATOM	953	CG2	THR A	69159.796	10.148	-0.125	1.00	0.00	C
ATOM	954	H	THR A	69161.078	6.073	-0.669	1.00	0.00	H

ATOM	955	HA	THR A	69161.774	8.551	0.749	1.00	0.00	H
ATOM	956	HB	THR A	69159.312	8.277	-0.974	1.00	0.00	H
ATOM	957	HG1	THR A	69160.699	8.445	-2.550	1.00	0.00	H
ATOM	958	1HG2	THR A	69160.366	10.356	0.768	1.00	0.00	H
ATOM	959	2HG2	THR A	69158.743	10.129	0.117	1.00	0.00	H
ATOM	960	3HG2	THR A	69159.982	10.920	-0.858	1.00	0.00	H
ATOM	961	N	ARG A	70160.593	7.377	2.629	1.00	0.00	N
ATOM	962	CA	ARG A	70159.811	6.918	3.771	1.00	0.00	C
ATOM	963	C	ARG A	70158.618	7.835	4.018	1.00	0.00	C
ATOM	964	O	ARG A	70158.749	9.059	4.005	1.00	0.00	O
ATOM	965	CB	ARG A	70160.689	6.855	5.023	1.00	0.00	C
ATOM	966	CG	ARG A	70159.948	6.370	6.260	1.00	0.00	C
ATOM	967	CD	ARG A	70160.069	7.358	7.410	1.00	0.00	C
ATOM	968	NE	ARG A	70160.228	6.685	8.697	1.00	0.00	N
ATOM	969	CZ	ARG A	70161.380	6.178	9.131	1.00	0.00	C
ATOM	970	NH1	ARG A	70162.475	6.264	8.385	1.00	0.00	N
ATOM	971	NH2	ARG A	70161.437	5.582	10.315	1.00	0.00	N
ATOM	972	H	ARG A	70161.529	7.635	2.762	1.00	0.00	H
ATOM	973	HA	ARG A	70159.448	5.926	3.546	1.00	0.00	H
ATOM	974	1HB	ARG A	70161.513	6.181	4.838	1.00	0.00	H
ATOM	975	2HB	ARG A	70161.079	7.841	5.225	1.00	0.00	H
ATOM	976	1HG	ARG A	70158.904	6.245	6.016	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.363	5.421	6.567	1.00	0.00	H
ATOM	978	1HD	ARG A	70160.928	7.989	7.237	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.177	7.966	7.440	1.00	0.00	H
ATOM	980	HE	ARG A	70159.436	6.606	9.267	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.438	6.711	7.492	1.00	0.00	H

ATOM	982	2HH1	ARG A	70163.337	5.881	8.717	1.00	0.00	H
ATOM	983	1HH2	ARG A	70160.615	5.515	10.880	1.00	0.00	H
ATOM	984	2HH2	ARG A	70162.303	5.202	10.641	1.00	0.00	H
ATOM	985	N	TYR A	71157.454	7.233	4.243	1.00	0.00	N
ATOM	986	CA	TYR A	71156.236	7.995	4.494	1.00	0.00	C
ATOM	987	C	TYR A	71155.691	7.705	5.889	1.00	0.00	C
ATOM	988	O	TYR A	71155.213	8.606	6.578	1.00	0.00	O
ATOM	989	CB	TYR A	71155.177	7.661	3.442	1.00	0.00	C
ATOM	990	CG	TYR A	71155.365	8.402	2.137	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.369	7.722	0.925	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.540	9.780	2.117	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.542	8.396	-0.270	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.713	10.460	0.926	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.713	9.764	-0.263	1.00	0.00	C
ATOM	996	OH	TYR A	71155.885	10.437	-1.451	1.00	0.00	O
ATOM	997	H	TYR A	71157.415	6.255	4.240	1.00	0.00	H
ATOM	998	HA	TYR A	71156.481	9.044	4.426	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.209	6.604	3.230	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.202	7.916	3.831	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.235	6.651	0.924	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.541	10.323	3.050	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.541	7.849	-1.202	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.847	11.532	0.931	1.00	0.00	H
ATOM	1005	HH	TYR A	71155.181	10.199	-2.060	1.00	0.00	H
ATOM	1006	N	PHE A	72155.770	6.445	6.299	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.285	6.036	7.613	1.00	0.00	C
ATOM	1008	C	PHE A	72156.210	4.994	8.234	1.00	0.00	C

ATOM	1009	O	PHE A	72157.229	4.626	7.649	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.866	5.476	7.505	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.694	4.488	6.386	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.520	4.923	5.082	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.705	3.126	6.639	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.360	4.017	4.050	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.546	2.215	5.612	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.374	2.662	4.316	1.00	0.00	C
ATOM	1017	H	PHE A	72156.163	5.772	5.705	1.00	0.00	H
ATOM	1018	HA	PHE A	72155.270	6.910	8.247	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.612	4.977	8.429	1.00	0.00	H
ATOM	1020	2HB	PHE A	72153.176	6.290	7.341	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.509	5.983	4.874	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.839	2.776	7.652	1.00	0.00	H
ATOM	1023	HE1	PHE A	72153.225	4.369	3.039	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.557	1.156	5.822	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.250	1.952	3.511	1.00	0.00	H
ATOM	1026	N	THR A	73155.849	4.521	9.422	1.00	0.00	N
ATOM	1027	CA	THR A	73156.646	3.521	10.122	1.00	0.00	C
ATOM	1028	C	THR A	73155.862	2.224	10.297	1.00	0.00	C
ATOM	1029	O	THR A	73154.872	2.180	11.028	1.00	0.00	O
ATOM	1030	CB	THR A	73157.085	4.053	11.487	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.756	3.047	12.225	1.00	0.00	O
ATOM	1032	CG2	THR A	73155.934	4.552	12.333	1.00	0.00	C
ATOM	1033	H	THR A	73155.026	4.853	9.839	1.00	0.00	H
ATOM	1034	HA	THR A	73157.523	3.320	9.526	1.00	0.00	H
ATOM	1035	HB	THR A	73157.767	4.877	11.339	1.00	0.00	H

ATOM	1036	HG1 THR A	73158.668	3.311	12.370	1.00	0.00	H
ATOM	1037	1HG2 THR A	73156.046	5.613	12.504	1.00	0.00	H
ATOM	1038	2HG2 THR A	73155.932	4.033	13.281	1.00	0.00	H
ATOM	1039	3HG2 THR A	73155.002	4.368	11.819	1.00	0.00	H
ATOM	1040	N CYS A	74156.311	1.172	9.622	1.00	0.00	N
ATOM	1041	CA CYS A	74155.651	-0.126	9.704	1.00	0.00	C
ATOM	1042	C CYS A	74156.672	-1.259	9.654	1.00	0.00	C
ATOM	1043	O CYS A	74157.867	-1.025	9.475	1.00	0.00	O
ATOM	1044	CB CYS A	74154.644	-0.282	8.562	1.00	0.00	C
ATOM	1045	SG CYS A	74152.993	0.348	8.944	1.00	0.00	S
ATOM	1046	H CYS A	74157.105	1.270	9.056	1.00	0.00	H
ATOM	1047	HA CYS A	74155.125	-0.172	10.644	1.00	0.00	H
ATOM	1048	1HB CYS A	74155.007	0.252	7.697	1.00	0.00	H
ATOM	1049	2HB CYS A	74154.548	-1.330	8.318	1.00	0.00	H
ATOM	1050	HG CYS A	74153.037	0.799	9.791	1.00	0.00	H
ATOM	1051	N ALA A	75156.192	-2.488	9.816	1.00	0.00	N
ATOM	1052	CA ALA A	75157.063	-3.657	9.791	1.00	0.00	C
ATOM	1053	C ALA A	75157.708	-3.832	8.420	1.00	0.00	C
ATOM	1054	O ALA A	75157.169	-3.385	7.408	1.00	0.00	O
ATOM	1055	CB ALA A	75156.281	-4.906	10.171	1.00	0.00	C
ATOM	1056	H ALA A	75155.231	-2.611	9.956	1.00	0.00	H
ATOM	1057	HA ALA A	75157.840	-3.510	10.527	1.00	0.00	H
ATOM	1058	1HB ALA A	75155.259	-4.806	9.836	1.00	0.00	H
ATOM	1059	2HB ALA A	75156.298	-5.028	11.244	1.00	0.00	H
ATOM	1060	3HB ALA A	75156.730	-5.769	9.703	1.00	0.00	H
ATOM	1061	N LEU A	76158.864	-4.486	8.395	1.00	0.00	N
ATOM	1062	CA LEU A	76159.583	-4.720	7.148	1.00	0.00	C

ATOM	1063	C	LEU A	76158.884	-5.784	6.309	1.00	0.00 C
ATOM	1064	O	LEU A	76158.277	-6.711	6.844	1.00	0.00 O
ATOM	1065	CB	LEU A	76161.023	-5.147	7.437	1.00	0.00 C
ATOM	1066	CG	LEU A	76161.915	-4.055	8.031	1.00	0.00 C
ATOM	1067	CD1	LEU A	76161.985	-4.187	9.545	1.00	0.00 C
ATOM	1068	CD2	LEU A	76163.309	-4.116	7.425	1.00	0.00 C
ATOM	1069	H	LEU A	76159.244	-4.819	9.235	1.00	0.00 H
ATOM	1070	HA	LEU A	76159.597	-3.794	6.595	1.00	0.00 H
ATOM	1071	1HB	LEU A	76160.998	-5.979	8.127	1.00	0.00 H
ATOM	1072	2HB	LEU A	76161.469	-5.483	6.513	1.00	0.00 H
ATOM	1073	HG	LEU A	76161.491	-3.088	7.800	1.00	0.00 H
ATOM	1074	1HD1	LEU A	76161.129	-4.740	9.897	1.00	0.00 H
ATOM	1075	2HD1	LEU A	76161.987	-3.203	9.991	1.00	0.00 H
ATOM	1076	3HD1	LEU A	76162.890	-4.708	9.819	1.00	0.00 H
ATOM	1077	1HD2	LEU A	76163.238	-4.403	6.386	1.00	0.00 H
ATOM	1078	2HD2	LEU A	76163.903	-4.844	7.959	1.00	0.00 H
ATOM	1079	3HD2	LEU A	76163.778	-3.146	7.499	1.00	0.00 H
ATOM	1080	N	LYS A	77158.974	-5.644	4.990	1.00	0.00 N
ATOM	1081	CA	LYS A	77158.350	-6.593	4.075	1.00	0.00 C
ATOM	1082	C	LYS A	77156.836	-6.610	4.257	1.00	0.00 C
ATOM	1083	O	LYS A	77156.193	-7.648	4.097	1.00	0.00 O
ATOM	1084	CB	LYS A	77158.918	-7.997	4.297	1.00	0.00 C
ATOM	1085	CG	LYS A	77160.436	-8.038	4.345	1.00	0.00 C
ATOM	1086	CD	LYS A	77161.044	-7.809	2.971	1.00	0.00 C
ATOM	1087	CE	LYS A	77162.497	-7.372	3.069	1.00	0.00 C
ATOM	1088	NZ	LYS A	77163.335	-7.988	2.004	1.00	0.00 N
ATOM	1089	H	LYS A	77159.473	-4.884	4.623	1.00	0.00 H

ATOM	1090	HA	LYS A	77158.575	-6.278	3.067	1.00	0.00 H
ATOM	1091	1HB	LYS A	77158.538	-8.382	5.231	1.00	0.00 H
ATOM	1092	2HB	LYS A	77158.587	-8.637	3.492	1.00	0.00 H
ATOM	1093	1HG	LYS A	77160.787	-7.268	5.015	1.00	0.00 H
ATOM	1094	2HG	LYS A	77160.749	-9.005	4.710	1.00	0.00 H
ATOM	1095	1HD	LYS A	77160.993	-8.729	2.407	1.00	0.00 H
ATOM	1096	2HD	LYS A	77160.480	-7.041	2.462	1.00	0.00 H
ATOM	1097	1HE	LYS A	77162.544	-6.298	2.975	1.00	0.00 H
ATOM	1098	2HE	LYS A	77162.883	-7.667	4.034	1.00	0.00 H
ATOM	1099	1HZ	LYS A	77164.058	-7.312	1.683	1.00	0.00 H
ATOM	1100	2HZ	LYS A	77162.743	-8.255	1.192	1.00	0.00 H
ATOM	1101	3HZ	LYS A	77163.809	-8.840	2.368	1.00	0.00 H
ATOM	1102	N	LYS A	78156.273	-5.453	4.593	1.00	0.00 N
ATOM	1103	CA	LYS A	78154.833	-5.336	4.796	1.00	0.00 C
ATOM	1104	C	LYS A	78154.337	-3.953	4.387	1.00	0.00 C
ATOM	1105	O	LYS A	78153.462	-3.379	5.035	1.00	0.00 O
ATOM	1106	CB	LYS A	78154.482	-5.606	6.260	1.00	0.00 C
ATOM	1107	CG	LYS A	78154.975	-6.951	6.768	1.00	0.00 C
ATOM	1108	CD	LYS A	78154.548	-7.196	8.206	1.00	0.00 C
ATOM	1109	CE	LYS A	78153.329	-8.101	8.279	1.00	0.00 C
ATOM	1110	NZ	LYS A	78152.528	-7.854	9.510	1.00	0.00 N
ATOM	1111	H	LYS A	78156.838	-4.661	4.705	1.00	0.00 H
ATOM	1112	HA	LYS A	78154.350	-6.076	4.177	1.00	0.00 H
ATOM	1113	1HB	LYS A	78154.920	-4.831	6.873	1.00	0.00 H
ATOM	1114	2HB	LYS A	78153.408	-5.575	6.372	1.00	0.00 H
ATOM	1115	1HG	LYS A	78154.567	-7.732	6.143	1.00	0.00 H
ATOM	1116	2HG	LYS A	78156.054	-6.971	6.712	1.00	0.00 H

ATOM	1117	1HD	LYS A	78155.363	-7.662	8.738	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.310	-6.247	8.667	1.00	0.00	H
ATOM	1119	1HE	LYS A	78152.709	-7.919	7.414	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.660	-9.129	8.274	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78151.535	-8.120	9.347	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78152.568	-6.849	9.768	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.903	-8.419	10.299	1.00	0.00	H
ATOM	1124	N	ALAA	79154.903	-3.423	3.306	1.00	0.00	N
ATOM	1125	CA	ALAA	79154.517	-2.107	2.811	1.00	0.00	C
ATOM	1126	C	ALAA	79154.453	-2.093	1.287	1.00	0.00	C
ATOM	1127	O	ALAA	79155.479	-1.991	0.614	1.00	0.00	O
ATOM	1128	CB	ALAA	79155.491	-1.050	3.310	1.00	0.00	C
ATOM	1129	H	ALAA	79155.595	-3.929	2.832	1.00	0.00	H
ATOM	1130	HA	ALAA	79153.538	-1.876	3.204	1.00	0.00	H
ATOM	1131	1HB	ALAA	79154.952	-0.139	3.526	1.00	0.00	H
ATOM	1132	2HB	ALAA	79156.234	-0.858	2.551	1.00	0.00	H
ATOM	1133	3HB	ALAA	79155.976	-1.402	4.208	1.00	0.00	H
ATOM	1134	N	LEU A	80153.242	-2.196	0.749	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.045	-2.195	-0.696	1.00	0.00	C
ATOM	1136	C	LEU A	80152.259	-0.964	-1.137	1.00	0.00	C
ATOM	1137	O	LEU A	80151.060	-0.857	-0.880	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.312	-3.465	-1.132	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.003	-3.553	-2.627	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.212	-4.072	-3.391	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.795	-4.445	-2.870	1.00	0.00	C
ATOM	1142	H	LEU A	80152.462	-2.275	1.338	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.018	-2.173	-1.164	1.00	0.00	H

ATOM	1144	1HB	LEU A	80152.919	-4.317	-0.859	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.379	-3.521	-0.592	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.773	-2.566	-3.000	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80154.113	-3.837	-2.843	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80153.251	-3.604	-4.364	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.131	-5.142	-3.509	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80149.892	-3.857	-2.792	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.775	-5.234	-2.131	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.858	-4.877	-3.857	1.00	0.00	H
ATOM	1153	N	PHE A	81152.943	-0.039	-1.802	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.309	1.184	-2.279	1.00	0.00	C
ATOM	1155	C	PHE A	81151.493	0.917	-3.540	1.00	0.00	C
ATOM	1156	O	PHE A	81151.877	0.102	-4.379	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.364	2.255	-2.559	1.00	0.00	C
ATOM	1158	CG	PHE A	81154.090	2.718	-1.328	1.00	0.00	C
ATOM	1159	CD1	PHE A	81155.218	2.048	-0.880	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.645	3.822	-0.619	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.888	2.471	0.252	1.00	0.00	C
ATOM	1162	CE2	PHE A	81154.311	4.250	0.515	1.00	0.00	C
ATOM	1163	CZ	PHE A	81155.435	3.573	0.950	1.00	0.00	C
ATOM	1164	H	PHE A	81153.896	-0.182	-1.977	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.646	1.538	-1.505	1.00	0.00	H
ATOM	1166	1HB	PHE A	81154.096	1.859	-3.247	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.885	3.115	-3.006	1.00	0.00	H
ATOM	1168	HD1	PHE A	81155.574	1.187	-1.426	1.00	0.00	H
ATOM	1169	HD2	PHE A	81152.767	4.351	-0.958	1.00	0.00	H
ATOM	1170	HE1	PHE A	81156.766	1.940	0.591	1.00	0.00	H

ATOM	1171	HE2	PHE A	81153.954	5.111	1.059	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.957	3.906	1.835	1.00	0.00	H
ATOM	1173	N	VAL A	82150.364	1.608	-3.667	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.494	1.444	-4.825	1.00	0.00	C
ATOM	1175	C	VAL A	82148.612	2.671	-5.027	1.00	0.00	C
ATOM	1176	O	VAL A	82148.497	3.519	-4.142	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.598	0.200	-4.684	1.00	0.00	C
ATOM	1178	CG1	VAL A	82149.428	-1.071	-4.779	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.827	0.243	-3.373	1.00	0.00	C
ATOM	1180	H	VAL A	82150.111	2.242	-2.965	1.00	0.00	H
ATOM	1181	HA	VAL A	82150.120	1.314	-5.697	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.885	0.200	-5.496	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82150.036	-1.038	-5.671	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82148.771	-1.927	-4.824	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82150.066	-1.150	-3.912	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82148.388	0.808	-2.643	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82147.675	-0.762	-3.011	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82146.869	0.716	-3.534	1.00	0.00	H
ATOM	1189	N	LYS A	83147.991	2.760	-6.199	1.00	0.00	N
ATOM	1190	CA	LYS A	83147.118	3.884	-6.518	1.00	0.00	C
ATOM	1191	C	LYS A	83145.833	3.826	-5.700	1.00	0.00	C
ATOM	1192	O	LYS A	83145.108	2.831	-5.732	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.786	3.890	-8.012	1.00	0.00	C
ATOM	1194	CG	LYS A	83148.004	4.058	-8.904	1.00	0.00	C
ATOM	1195	CD	LYS A	83147.623	4.036	-10.376	1.00	0.00	C
ATOM	1196	CE	LYS A	83148.408	5.068	-11.171	1.00	0.00	C
ATOM	1197	NZ	LYS A	83148.692	4.605	-12.557	1.00	0.00	N

ATOM	1198	H	LYS A	83148.122	2.052	-6.864	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.645	4.793	-6.272	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.305	2.957	-8.265	1.00	0.00	H
ATOM	1201	2HB	LYS A	83146.104	4.703	-8.214	1.00	0.00	H
ATOM	1202	1HG	LYS A	83148.476	5.002	-8.680	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.695	3.251	-8.709	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.829	3.055	-10.778	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.568	4.250	-10.469	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.833	5.980	-11.217	1.00	0.00	H
ATOM	1207	2HE	LYS A	83149.343	5.258	-10.664	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83147.835	4.193	-12.979	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.440	3.882	-12.546	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83149.006	5.404	-13.143	1.00	0.00	H
ATOM	1211	N	LEU A	84145.559	4.900	-4.967	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.362	4.977	-4.138	1.00	0.00	C
ATOM	1213	C	LEU A	84143.103	4.813	-4.985	1.00	0.00	C
ATOM	1214	O	LEU A	84142.124	4.210	-4.547	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.324	6.314	-3.395	1.00	0.00	C
ATOM	1216	CG	LEU A	84143.055	6.569	-2.580	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.085	5.777	-1.283	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.896	8.055	-2.295	1.00	0.00	C
ATOM	1219	H	LEU A	84146.177	5.660	-4.986	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.405	4.175	-3.419	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.170	6.352	-2.725	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.426	7.107	-4.120	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.197	6.243	-3.150	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.799	4.753	-1.479	1.00	0.00	H

ATOM	1225	2HD1	LEU A	84142.394	6.214	-0.577	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84144.083	5.798	-0.870	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84143.784	8.425	-1.805	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84142.040	8.209	-1.654	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.750	8.586	-3.224	1.00	0.00	H
ATOM	1230	N	LYS A	85143.138	5.352	-6.199	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.999	5.264	-7.106	1.00	0.00	C
ATOM	1232	C	LYS A	85141.717	3.814	-7.488	1.00	0.00	C
ATOM	1233	O	LYS A	85140.589	3.461	-7.832	1.00	0.00	O
ATOM	1234	CB	LYS A	85142.259	6.093	-8.365	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.453	5.615	-9.173	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.781	6.575	-10.306	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.955	7.474	-9.953	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.679	8.301	-8.746	1.00	0.00	N
ATOM	1239	H	LYS A	85143.948	5.819	-6.491	1.00	0.00	H
ATOM	1240	HA	LYS A	85141.137	5.662	-6.595	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.384	6.050	-8.997	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.433	7.118	-8.077	1.00	0.00	H
ATOM	1243	1HG	LYS A	85144.310	5.538	-8.521	1.00	0.00	H
ATOM	1244	2HG	LYS A	85143.229	4.643	-9.590	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.031	6.004	-11.188	1.00	0.00	H
ATOM	1246	2HD	LYS A	85142.914	7.189	-10.506	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.821	6.858	-9.766	1.00	0.00	H
ATOM	1248	2HE	LYS A	85145.154	8.129	-10.789	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85145.546	8.784	-8.437	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.337	7.698	-7.970	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85143.953	9.015	-8.959	1.00	0.00	H

ATOM	1252	N	SER A	86142.750	2.976	-7.427	1.00	0.00 N
ATOM	1253	CA	SER A	86142.608	1.565	-7.767	1.00	0.00 C
ATOM	1254	C	SER A	86142.494	0.710	-6.509	1.00	0.00 C
ATOM	1255	O	SER A	86142.923	-0.444	-6.490	1.00	0.00 O
ATOM	1256	CB	SER A	86143.800	1.100	-8.607	1.00	0.00 C
ATOM	1257	OG	SER A	86143.657	1.500	-9.959	1.00	0.00 O
ATOM	1258	H	SER A	86143.625	3.314	-7.147	1.00	0.00 H
ATOM	1259	HA	SER A	86141.704	1.453	-8.347	1.00	0.00 H
ATOM	1260	1HB	SER A	86144.707	1.531	-8.211	1.00	0.00 H
ATOM	1261	2HB	SER A	86143.866	0.023	-8.568	1.00	0.00 H
ATOM	1262	HG	SER A	86143.468	2.440	-9.997	1.00	0.00 H
ATOM	1263	N	CYS A	87141.913	1.284	-5.460	1.00	0.00 N
ATOM	1264	CA	CYS A	87141.742	0.575	-4.198	1.00	0.00 C
ATOM	1265	C	CYS A	87140.267	0.304	-3.923	1.00	0.00 C
ATOM	1266	O	CYS A	87139.397	1.064	-4.346	1.00	0.00 O
ATOM	1267	CB	CYS A	87142.347	1.382	-3.048	1.00	0.00 C
ATOM	1268	SG	CYS A	87144.153	1.474	-3.081	1.00	0.00 S
ATOM	1269	H	CYS A	87141.592	2.207	-5.537	1.00	0.00 H
ATOM	1270	HA	CYS A	87142.262	-0.369	-4.274	1.00	0.00 H
ATOM	1271	1HB	CYS A	87141.968	2.393	-3.089	1.00	0.00 H
ATOM	1272	2HB	CYS A	87142.057	0.933	-2.110	1.00	0.00 H
ATOM	1273	HG	CYS A	87144.471	1.371	-2.181	1.00	0.00 H
ATOM	1274	N	ARG A	88139.992	-0.786	-3.212	1.00	0.00 N
ATOM	1275	CA	ARG A	88138.620	-1.156	-2.882	1.00	0.00 C
ATOM	1276	C	ARG A	88138.440	-1.289	-1.372	1.00	0.00 C
ATOM	1277	O	ARG A	88139.327	-1.781	-0.674	1.00	0.00 O
ATOM	1278	CB	ARG A	88138.247	-2.472	-3.569	1.00	0.00 C

ATOM	1279	CG	ARG A	88137.641	-2.286	-4.950	1.00	0.00	C
ATOM	1280	CD	ARG A	88136.123	-2.374	-4.909	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.530	-2.222	-6.236	1.00	0.00	N
ATOM	1282	CZ	ARG A	88135.476	-1.068	-6.897	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.977	0.037	-6.359	1.00	0.00	N
ATOM	1284	NH2	ARG A	88134.919	-1.019	-8.099	1.00	0.00	N
ATOM	1285	H	ARG A	88140.729	-1.354	-2.903	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.971	-0.374	-3.246	1.00	0.00	H
ATOM	1287	1HB	ARG A	88139.136	-3.077	-3.669	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.533	-2.997	-2.953	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.924	-1.316	-5.330	1.00	0.00	H
ATOM	1290	2HG	ARG A	88138.019	-3.056	-5.606	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.842	-3.335	-4.507	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.749	-1.591	-4.265	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.152	-3.023	-6.656	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88136.399	0.007	-5.453	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.934	0.901	-6.861	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88134.539	-1.848	-8.509	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88134.878	-0.152	-8.596	1.00	0.00	H
ATOM	1298	N	PRO A	89137.282	-0.854	-0.841	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.995	-0.931	0.595	1.00	0.00	C
ATOM	1300	C	PRO A	89137.153	-2.347	1.140	1.00	0.00	C
ATOM	1301	O	PRO A	89136.565	-3.293	0.616	1.00	0.00	O
ATOM	1302	CB	PRO A	89135.534	-0.482	0.696	1.00	0.00	C
ATOM	1303	CG	PRO A	89135.303	0.344	-0.521	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.166	-0.254	-1.596	1.00	0.00	C
ATOM	1305	HA	PRO A	89137.622	-0.257	1.160	1.00	0.00	H

ATOM	1306	1HB	PRO A	89134.889	-1.349	0.715	1.00	0.00	H
ATOM	1307	2HB	PRO A	89135.394	0.097	1.597	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.262	0.297	-0.805	1.00	0.00	H
ATOM	1309	2HG	PRO A	89135.596	1.367	-0.332	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.619	-1.009	-2.142	1.00	0.00	H
ATOM	1311	2HD	PRO A	89136.522	0.515	-2.265	1.00	0.00	H
ATOM	1312	N	ASP A	90137.949	-2.484	2.196	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.183	-3.784	2.811	1.00	0.00	C
ATOM	1314	C	ASP A	90137.359	-3.937	4.086	1.00	0.00	C
ATOM	1315	O	ASP A	90137.749	-3.455	5.149	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.668	-3.964	3.127	1.00	0.00	C
ATOM	1317	CG	ASP A	90140.101	-5.416	3.066	1.00	0.00	C
ATOM	1318	OD1	ASP A	90139.932	-6.041	1.997	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.609	-5.928	4.085	1.00	0.00	O
ATOM	1320	H	ASP A	90138.389	-1.691	2.569	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.878	-4.544	2.107	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.253	-3.403	2.413	1.00	0.00	H
ATOM	1323	2HB	ASP A	90139.866	-3.589	4.120	1.00	0.00	H
ATOM	1324	N	SER A	91136.220	-4.611	3.972	1.00	0.00	N
ATOM	1325	CA	SER A	91135.343	-4.826	5.118	1.00	0.00	C
ATOM	1326	C	SER A	91135.563	-6.209	5.723	1.00	0.00	C
ATOM	1327	O	SER A	91134.646	-6.803	6.289	1.00	0.00	O
ATOM	1328	CB	SER A	91133.879	-4.667	4.702	1.00	0.00	C
ATOM	1329	OG	SER A	91133.091	-4.194	5.781	1.00	0.00	O
ATOM	1330	H	SER A	91135.962	-4.972	3.098	1.00	0.00	H
ATOM	1331	HA	SER A	91135.579	-4.079	5.859	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.812	-3.962	3.887	1.00	0.00	H

ATOM	1333	2HB	SER A	91133.492	-5.624	4.383	1.00	0.00	H
ATOM	1334	HG	SER A	91132.300	-4.732	5.861	1.00	0.00	H
ATOM	1335	N	ARG A	92136.787	-6.715	5.600	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.126	-8.028	6.137	1.00	0.00	C
ATOM	1337	C	ARG A	92137.058	-8.025	7.660	1.00	0.00	C
ATOM	1338	O	ARG A	92136.757	-9.045	8.281	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.525	-8.444	5.677	1.00	0.00	C
ATOM	1340	CG	ARG A	92138.648	-8.601	4.171	1.00	0.00	C
ATOM	1341	CD	ARG A	92137.984	-9.879	3.686	1.00	0.00	C
ATOM	1342	NE	ARG A	92136.678	-9.622	3.082	1.00	0.00	N
ATOM	1343	CZ	ARG A	92136.048	-10.481	2.285	1.00	0.00	C
ATOM	1344	NH1	ARG A	92136.599	-11.654	1.994	1.00	0.00	N
ATOM	1345	NH2	ARG A	92134.864	-10.169	1.777	1.00	0.00	N
ATOM	1346	H	ARG A	92137.477	-6.195	5.139	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.406	-8.738	5.757	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.234	-7.696	5.999	1.00	0.00	H
ATOM	1349	2HB	ARG A	92138.776	-9.388	6.138	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.176	-7.758	3.690	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.696	-8.627	3.906	1.00	0.00	H
ATOM	1352	1HD	ARG A	92138.623	-10.346	2.952	1.00	0.00	H
ATOM	1353	2HD	ARG A	92137.856	-10.545	4.527	1.00	0.00	H
ATOM	1354	HE	ARG A	92136.248	-8.764	3.281	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92137.492	-11.896	2.373	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92136.120	-12.295	1.395	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92134.444	-9.288	1.993	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92134.390	-10.815	1.177	1.00	0.00	H
ATOM	1359	N	PHE A	93137.340	-6.872	8.258	1.00	0.00	N

ATOM	1360	CA	PHE A	93137.310	-6.734	9.709	1.00	0.00	C
ATOM	1361	C	PHE A	93136.350	-5.627	10.133	1.00	0.00	C
ATOM	1362	O	PHE A	93136.554	-4.973	11.155	1.00	0.00	O
ATOM	1363	CB	PHE A	93138.713	-6.439	10.243	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.735	-7.465	9.842	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.148	-7.570	8.523	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.281	-8.323	10.782	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.090	-8.512	8.151	1.00	0.00	C
ATOM	1368	CE2	PHE A	93141.222	-9.267	10.416	1.00	0.00	C
ATOM	1369	CZ	PHE A	93141.626	-9.361	9.099	1.00	0.00	C
ATOM	1370	H	PHE A	93137.572	-6.093	7.709	1.00	0.00	H
ATOM	1371	HA	PHE A	93136.966	-7.671	10.124	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.039	-5.481	9.867	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.680	-6.406	11.321	1.00	0.00	H
ATOM	1374	HD1	PHE A	93139.731	-6.905	7.782	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.965	-8.250	11.813	1.00	0.00	H
ATOM	1376	HE1	PHE A	93141.403	-8.585	7.120	1.00	0.00	H
ATOM	1377	HE2	PHE A	93141.639	-9.930	11.159	1.00	0.00	H
ATOM	1378	HZ	PHE A	93142.361	-10.099	8.811	1.00	0.00	H
ATOM	1379	N	ALAA	94135.303	-5.421	9.339	1.00	0.00	N
ATOM	1380	CA	ALAA	94134.313	-4.393	9.632	1.00	0.00	C
ATOM	1381	C	ALAA	94133.083	-4.992	10.307	1.00	0.00	C
ATOM	1382	O	ALAA	94132.438	-5.889	9.763	1.00	0.00	O
ATOM	1383	CB	ALAA	94133.918	-3.663	8.357	1.00	0.00	C
ATOM	1384	H	ALAA	94135.195	-5.975	8.537	1.00	0.00	H
ATOM	1385	HA	ALAA	94134.765	-3.677	10.302	1.00	0.00	H
ATOM	1386	1HB	ALAA	94134.109	-2.606	8.472	1.00	0.00	H

ATOM	1387	2HB	ALA A	94132.867	-3.819	8.161	1.00	0.00	H
ATOM	1388	3HB	ALA A	94134.498	-4.044	7.530	1.00	0.00	H
ATOM	1389	N	SER A	95132.763	-4.490	11.495	1.00	0.00	N
ATOM	1390	CA	SER A	95131.610	-4.975	12.245	1.00	0.00	C
ATOM	1391	C	SER A	95130.308	-4.529	11.587	1.00	0.00	C
ATOM	1392	O	SER A	95129.946	-3.354	11.637	1.00	0.00	O
ATOM	1393	CB	SER A	95131.664	-4.470	13.688	1.00	0.00	C
ATOM	1394	OG	SER A	95131.564	-3.058	13.739	1.00	0.00	O
ATOM	1395	H	SER A	95133.315	-3.776	11.877	1.00	0.00	H
ATOM	1396	HA	SER A	95131.648	-6.054	12.249	1.00	0.00	H
ATOM	1397	1HB	SER A	95130.845	-4.897	14.247	1.00	0.00	H
ATOM	1398	2HB	SER A	95132.600	-4.770	14.136	1.00	0.00	H
ATOM	1399	HG	SER A	95132.373	-2.667	13.400	1.00	0.00	H
ATOM	1400	N	LEU A	96129.608	-5.477	10.970	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.346	-5.182	10.302	1.00	0.00	C
ATOM	1402	C	LEU A	96127.436	-6.404	10.293	1.00	0.00	C
ATOM	1403	O	LEU A	96126.247	-6.309	10.601	1.00	0.00	O
ATOM	1404	CB	LEU A	96128.601	-4.708	8.870	1.00	0.00	C
ATOM	1405	CG	LEU A	96127.648	-3.623	8.366	1.00	0.00	C
ATOM	1406	CD1	LEU A	96128.191	-2.242	8.694	1.00	0.00	C
ATOM	1407	CD2	LEU A	96127.421	-3.768	6.869	1.00	0.00	C
ATOM	1408	H	LEU A	96129.949	-6.395	10.965	1.00	0.00	H
ATOM	1409	HA	LEU A	96127.859	-4.393	10.851	1.00	0.00	H
ATOM	1410	1HB	LEU A	96129.611	-4.326	8.814	1.00	0.00	H
ATOM	1411	2HB	LEU A	96128.520	-5.561	8.212	1.00	0.00	H
ATOM	1412	HG	LEU A	96126.695	-3.733	8.862	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96129.269	-2.255	8.634	1.00	0.00	H

ATOM	1414	2HD1	LEU A	96127.889	-1.963	9.694	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96127.801	-1.524	7.987	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96126.537	-4.363	6.695	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96128.275	-4.253	6.421	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96127.289	-2.790	6.429	1.00	0.00	H
ATOM	1419	N	GLN A	97128.003	-7.548	9.937	1.00	0.00	N
ATOM	1420	CA	GLN A	97127.247	-8.794	9.885	1.00	0.00	C
ATOM	1421	C	GLN A	97126.955	-9.315	11.292	1.00	0.00	C
ATOM	1422	O	GLN A	97125.796	-9.457	11.681	1.00	0.00	O
ATOM	1423	CB	GLN A	97128.014	-9.848	9.081	1.00	0.00	C
ATOM	1424	CG	GLN A	97127.274	-10.326	7.843	1.00	0.00	C
ATOM	1425	CD	GLN A	97127.055	-9.219	6.831	1.00	0.00	C
ATOM	1426	OE1	GLN A	97127.736	-8.193	6.859	1.00	0.00	O
ATOM	1427	NE2	GLN A	97126.102	-9.421	5.929	1.00	0.00	N
ATOM	1428	H	GLN A	97128.953	-7.555	9.703	1.00	0.00	H
ATOM	1429	HA	GLN A	97126.309	-8.591	9.390	1.00	0.00	H
ATOM	1430	1HB	GLN A	97128.959	-9.428	8.770	1.00	0.00	H
ATOM	1431	2HB	GLN A	97128.202	-10.703	9.714	1.00	0.00	H
ATOM	1432	1HG	GLN A	97127.849	-11.112	7.376	1.00	0.00	H
ATOM	1433	2HG	GLN A	97126.311	-10.716	8.143	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97125.600	-10.262	5.967	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97125.939	-8.721	5.262	1.00	0.00	H
ATOM	1436	N	PRO A	98128.007	-9.608	12.075	1.00	0.00	N
ATOM	1437	CA	PRO A	98127.855	-10.116	13.442	1.00	0.00	C
ATOM	1438	C	PRO A	98127.388	-9.036	14.412	1.00	0.00	C
ATOM	1439	O	PRO A	98127.027	-7.933	14.001	1.00	0.00	O
ATOM	1440	CB	PRO A	98129.266	-10.584	13.802	1.00	0.00	C

ATOM	1441	CG	PRO A	98130.167	-9.736	12.973	1.00	0.00	C
ATOM	1442	CD	PRO A	98129.426	-9.470	11.691	1.00	0.00	C
ATOM	1443	HA	PRO A	98127.174	-10.952	13.480	1.00	0.00	H
ATOM	1444	1HB	PRO A	98129.439	-10.434	14.858	1.00	0.00	H
ATOM	1445	2HB	PRO A	98129.375	-11.630	13.558	1.00	0.00	H
ATOM	1446	1HG	PRO A	98130.372	-8.809	13.488	1.00	0.00	H
ATOM	1447	2HG	PRO A	98131.086	-10.266	12.772	1.00	0.00	H
ATOM	1448	1HD	PRO A	98129.634	-8.470	11.337	1.00	0.00	H
ATOM	1449	2HD	PRO A	98129.695	-10.199	10.941	1.00	0.00	H
ATOM	1450	N	SER A	99127.397	-9.361	15.700	1.00	0.00	N
ATOM	1451	CA	SER A	99126.974	-8.420	16.730	1.00	0.00	C
ATOM	1452	C	SER A	99128.013	-8.325	17.842	1.00	0.00	C
ATOM	1453	O	SER A	99127.894	-8.984	18.875	1.00	0.00	O
ATOM	1454	CB	SER A	99125.624	-8.841	17.313	1.00	0.00	C
ATOM	1455	OG	SER A	99125.449	-10.245	17.232	1.00	0.00	O
ATOM	1456	H	SER A	99127.696	-10.257	15.965	1.00	0.00	H
ATOM	1457	HA	SER A	99126.869	-7.449	16.269	1.00	0.00	H
ATOM	1458	1HB	SER A	99125.573	-8.545	18.351	1.00	0.00	H
ATOM	1459	2HB	SER A	99124.830	-8.359	16.762	1.00	0.00	H
ATOM	1460	HG	SER A	99125.229	-10.489	16.329	1.00	0.00	H
ATOM	1461	N	GLY A	100129.034	-7.502	17.623	1.00	0.00	N
ATOM	1462	CA	GLY A	100130.080	-7.338	18.614	1.00	0.00	C
ATOM	1463	C	GLY A	100129.626	-6.514	19.806	1.00	0.00	C
ATOM	1464	O	GLY A	100128.689	-5.723	19.694	1.00	0.00	O
ATOM	1465	H	GLY A	100129.076	-7.003	16.780	1.00	0.00	H
ATOM	1466	1HA	GLY A	100130.389	-8.312	18.962	1.00	0.00	H
ATOM	1467	2HA	GLY A	100130.925	-6.847	18.153	1.00	0.00	H

ATOM	1468	N	PRO A 101130.277	-6.678	20.969	1.00	0.00	N
ATOM	1469	CA	PRO A 101129.924	-5.935	22.183	1.00	0.00	C
ATOM	1470	C	PRO A 101130.281	-4.456	22.081	1.00	0.00	C
ATOM	1471	O	PRO A 101130.835	-4.008	21.078	1.00	0.00	O
ATOM	1472	CB	PRO A 101130.760	-6.613	23.272	1.00	0.00	C
ATOM	1473	CG	PRO A 101131.923	-7.196	22.548	1.00	0.00	C
ATOM	1474	CD	PRO A 101131.408	-7.600	21.194	1.00	0.00	C
ATOM	1475	HA	PRO A 101128.874	-6.036	22.418	1.00	0.00	H
ATOM	1476	1HB	PRO A 101131.075	-5.877	23.998	1.00	0.00	H
ATOM	1477	2HB	PRO A 101130.173	-7.379	23.757	1.00	0.00	H
ATOM	1478	1HG	PRO A 101132.702	-6.456	22.446	1.00	0.00	H
ATOM	1479	2HG	PRO A 101132.292	-8.060	23.080	1.00	0.00	H
ATOM	1480	1HD	PRO A 101132.171	-7.462	20.442	1.00	0.00	H
ATOM	1481	2HD	PRO A 101131.071	-8.625	21.207	1.00	0.00	H
ATOM	1482	N	SER A 102129.959	-3.702	23.127	1.00	0.00	N
ATOM	1483	CA	SER A 102130.245	-2.272	23.156	1.00	0.00	C
ATOM	1484	C	SER A 102131.024	-1.897	24.413	1.00	0.00	C
ATOM	1485	O	SER A 102132.035	-1.200	24.344	1.00	0.00	O
ATOM	1486	CB	SER A 102128.945	-1.469	23.089	1.00	0.00	C
ATOM	1487	OG	SER A 102127.980	-2.124	22.284	1.00	0.00	O
ATOM	1488	H	SER A 102129.518	-4.116	23.899	1.00	0.00	H
ATOM	1489	HA	SER A 102130.847	-2.037	22.291	1.00	0.00	H
ATOM	1490	1HB	SER A 102128.544	-1.353	24.086	1.00	0.00	H
ATOM	1491	2HB	SER A 102129.146	-0.495	22.668	1.00	0.00	H
ATOM	1492	HG	SER A 102128.380	-2.382	21.450	1.00	0.00	H
ATOM	1493	N	SER A 103130.545	-2.367	25.561	1.00	0.00	N
ATOM	1494	CA	SER A 103131.197	-2.082	26.834	1.00	0.00	C

ATOM	1495	C	SER A 103130.874	-3.160	27.863	1.00	0.00	C
ATOM	1496	O	SER A 103131.771	-3.823	28.384	1.00	0.00	O
ATOM	1497	CB	SER A 103130.760	-0.712	27.358	1.00	0.00	C
ATOM	1498	OG	SER A 103131.620	0.311	26.891	1.00	0.00	O
ATOM	1499	H	SER A 103129.734	-2.918	25.551	1.00	0.00	H
ATOM	1500	HA	SER A 103132.262	-2.069	26.665	1.00	0.00	H
ATOM	1501	1HB	SER A 103129.756	-0.503	27.021	1.00	0.00	H
ATOM	1502	2HB	SER A 103130.783	-0.720	28.438	1.00	0.00	H
ATOM	1503	HG	SER A 103132.396	0.360	27.455	1.00	0.00	H
ATOM	1504	N	GLY A 104129.588	-3.329	28.153	1.00	0.00	N
ATOM	1505	CA	GLY A 104129.170	-4.328	29.119	1.00	0.00	C
ATOM	1506	C	GLY A 104127.832	-4.001	29.751	1.00	0.00	C
ATOM	1507	O	GLY A 104127.823	-3.345	30.815	1.00	0.00	O
ATOM	1508	OXT	GLY A 104126.794	-4.397	29.183	1.00	0.00	O
ATOM	1509	H	GLY A 104128.917	-2.771	27.707	1.00	0.00	H
ATOM	1510	1HA	GLY A 104129.097	-5.284	28.622	1.00	0.00	H
ATOM	1511	2HA	GLY A 104129.917	-4.395	29.897	1.00	0.00	H
TER	1512	GLY A 104						
ENDMDL								

Three-Dimensional Structure Coordinate Table 8

ATOM 1	N	GLY A	1135.862	21.326	-5.428	1.00	0.00	N
ATOM 2	CA	GLY A	1136.784	22.453	-5.740	1.00	0.00	C
ATOM 3	C	GLY A	1136.436	23.144	-7.044	1.00	0.00	C
ATOM 4	O	GLY A	1135.778	24.184	-7.046	1.00	0.00	O
ATOM 5	1H	GLY A	1134.965	21.447	-5.941	1.00	0.00	H
ATOM 6	2H	GLY A	1135.664	21.298	-4.408	1.00	0.00	H

ATOM 7 3H	GLY A	1136.294	20.423	-5.712	1.00	0.00	H
ATOM 8 1HA	GLY A	1136.736	23.175	-4.938	1.00	0.00	H
ATOM 9 2HA	GLY A	1137.793	22.071	-5.805	1.00	0.00	H
ATOM10 N	SER A	2136.880	22.565	-8.154	1.00	0.00	N
ATOM11 CA	SER A	2136.611	23.132	-9.471	1.00	0.00	C
ATOM12 C	SER A	2135.133	23.008	-9.825	1.00	0.00	C
ATOM13 O	SER A	2134.622	21.906	-10.024	1.00	0.00	O
ATOM14 CB	SER A	2137.463	22.432	-10.532	1.00	0.00	C
ATOM15 OG	SER A	2137.904	23.351	-11.518	1.00	0.00	O
ATOM16 H	SER A	2137.399	21.736	-8.087	1.00	0.00	H
ATOM17 HA	SER A	2136.876	24.178	-9.441	1.00	0.00	H
ATOM18 1HB	SER A	2138.326	21.986	-10.063	1.00	0.00	H
ATOM19 2HB	SER A	2136.876	21.663	-11.012	1.00	0.00	H
ATOM20 HG	SER A	2138.856	23.456	-11.454	1.00	0.00	H
ATOM21 N	SER A	3134.452	24.146	-9.904	1.00	0.00	N
ATOM22 CA	SER A	3133.032	24.166	-10.234	1.00	0.00	C
ATOM23 C	SER A	3132.822	24.039	-11.740	1.00	0.00	C
ATOM24 O	SER A	3133.076	24.979	-12.494	1.00	0.00	O
ATOM25 CB	SER A	3132.385	25.455	-9.725	1.00	0.00	C
ATOM26 OG	SER A	3132.929	26.590	-10.375	1.00	0.00	O
ATOM27 H	SER A	3134.915	24.993	-9.735	1.00	0.00	H
ATOM28 HA	SER A	3132.567	23.323	-9.747	1.00	0.00	H
ATOM29 1HB	SER A	3131.323	25.422	-9.915	1.00	0.00	H
ATOM30 2HB	SER A	3132.558	25.547	-8.663	1.00	0.00	H
ATOM31 HG	SER A	3132.626	26.615	-11.286	1.00	0.00	H
ATOM32 N	GLY A	4132.358	22.871	-12.172	1.00	0.00	N
ATOM33 CA	GLY A	4132.122	22.643	-13.585	1.00	0.00	C

ATOM34	C	GLY A	4132.095	21.169 -13.938	1.00	0.00 C
ATOM35	O	GLY A	4132.285	20.314 -13.073	1.00	0.00 O
ATOM36	H	GLY A	4132.174	22.159 -11.525	1.00	0.00 H
ATOM37 1HA		GLY A	4131.175	23.084 -13.857	1.00	0.00 H
ATOM38 2HA		GLY A	4132.906	23.123 -14.151	1.00	0.00 H
ATOM39	N	SER A	5131.857	20.871 -15.211	1.00	0.00 N
ATOM40	CA	SER A	5131.806	19.490 -15.676	1.00	0.00 C
ATOM41	C	SER A	5130.700	18.717 -14.963	1.00	0.00 C
ATOM42	O	SER A	5130.136	19.190 -13.977	1.00	0.00 O
ATOM43	CB	SER A	5133.153	18.803 -15.448	1.00	0.00 C
ATOM44	OG	SER A	5133.460	17.916 -16.510	1.00	0.00 O
ATOM45	H	SER A	5131.714	21.598 -15.853	1.00	0.00 H
ATOM46	HA	SER A	5131.593	19.505 -16.734	1.00	0.00 H
ATOM47 1HB		SER A	5133.930	19.550 -15.385	1.00	0.00 H
ATOM48 2HB		SER A	5133.118	18.242 -14.526	1.00	0.00 H
ATOM49	HG	SER A	5133.809	18.414 -17.252	1.00	0.00 H
ATOM50	N	SER A	6130.397	17.527 -15.469	1.00	0.00 N
ATOM51	CA	SER A	6129.360	16.689 -14.880	1.00	0.00 C
ATOM52	C	SER A	6129.754	15.216 -14.934	1.00	0.00 C
ATOM53	O	SER A	6129.519	14.536 -15.934	1.00	0.00 O
ATOM54	CB	SER A	6128.031	16.900 -15.608	1.00	0.00 C
ATOM55	OG	SER A	6128.003	18.156 -16.264	1.00	0.00 O
ATOM56	H	SER A	6130.884	17.203 -16.256	1.00	0.00 H
ATOM57	HA	SER A	6129.244	16.980 -13.847	1.00	0.00 H
ATOM58 1HB		SER A	6127.897	16.121 -16.343	1.00	0.00 H
ATOM59 2HB		SER A	6127.222	16.863 -14.893	1.00	0.00 H
ATOM60	HG	SER A	6127.925	18.856 -15.612	1.00	0.00 H

ATOM61	N	GLY A	7130.352	14.729	-13.853	1.00	0.00	N
ATOM62	CA	GLY A	7130.769	13.340	-13.798	1.00	0.00	C
ATOM63	C	GLY A	7131.372	12.967	-12.458	1.00	0.00	C
ATOM64	O	GLY A	7132.589	12.825	-12.335	1.00	0.00	O
ATOM65	H	GLY A	7130.513	15.317	-13.085	1.00	0.00	H
ATOM66	1HA	GLY A	7129.910	12.711	-13.981	1.00	0.00	H
ATOM67	2HA	GLY A	7131.502	13.165	-14.571	1.00	0.00	H
ATOM68	N	LEU A	8130.520	12.809	-11.450	1.00	0.00	N
ATOM69	CA	LEU A	8130.974	12.451	-10.112	1.00	0.00	C
ATOM70	C	LEU A	8130.399	11.105	-9.684	1.00	0.00	C
ATOM71	O	LEU A	8129.312	10.718	-10.114	1.00	0.00	O
ATOM72	CB	LEU A	8130.573	13.532	-9.107	1.00	0.00	C
ATOM73	CG	LEU A	8130.735	14.970	-9.605	1.00	0.00	C
ATOM74	CD1	LEU A	8129.892	15.921	-8.770	1.00	0.00	C
ATOM75	CD2	LEU A	8132.199	15.382	-9.570	1.00	0.00	C
ATOM76	H	LEU A	8129.561	12.936	-11.611	1.00	0.00	H
ATOM77	HA	LEU A	8132.051	12.376	-10.136	1.00	0.00	H
ATOM78	1HB	LEU A	8129.538	13.379	-8.841	1.00	0.00	H
ATOM79	2HB	LEU A	8131.177	13.412	-8.221	1.00	0.00	H
ATOM80	HG	LEU A	8130.392	15.031	-10.627	1.00	0.00	H
ATOM81	1HD1	LEU A	8129.871	16.892	-9.242	1.00	0.00	H
ATOM82	2HD1	LEU A	8130.321	16.010	-7.782	1.00	0.00	H
ATOM83	3HD1	LEU A	8128.885	15.537	-8.692	1.00	0.00	H
ATOM84	1HD2	LEU A	8132.656	15.168	-10.525	1.00	0.00	H
ATOM85	2HD2	LEU A	8132.710	14.832	-8.795	1.00	0.00	H
ATOM86	3HD2	LEU A	8132.270	16.441	-9.367	1.00	0.00	H
ATOM87	N	ALA A	9131.134	10.395	-8.834	1.00	0.00	N

ATOM88	CA	ALA A	9130.696	9.092	-8.348	1.00	0.00	C	
ATOM89	C	ALA A	9131.453	8.694	-7.086	1.00	0.00	C	
ATOM90	O	ALA A	9131.772	7.522	-6.886	1.00	0.00	O	
ATOM91	CB	ALA A	9130.878	8.038	-9.430	1.00	0.00	C	
ATOM92	H	ALA A	9131.991	10.756	-8.527	1.00	0.00	H	
ATOM93	HA	ALA A	9129.643	9.160	-8.118	1.00	0.00	H	
ATOM94	1HB	ALA A	9129.990	7.996	-10.045	1.00	0.00	H	
ATOM95	2HB	ALA A	9131.042	7.075	-8.970	1.00	0.00	H	
ATOM96	3HB	ALA A	9131.728	8.295	-10.044	1.00	0.00	H	
ATOM97	N	MET A	10131.737	9.675	-6.238	1.00	0.00	N	
ATOM98	CA	MET A	10132.457	9.427	-4.994	1.00	0.00	C	
ATOM99	C	MET A	10132.314	10.608	-4.035	1.00	0.00	C	
ATOM	100	O	MET A	10133.291	11.291	-3.728	1.00	0.00	O
ATOM	101	CB	MET A	10133.936	9.159	-5.280	1.00	0.00	C
ATOM	102	CG	MET A	10134.602	10.248	-6.106	1.00	0.00	C
ATOM	103	SD	MET A	10136.400	10.200	-5.997	1.00	0.00	S
ATOM	104	CE	MET A	10136.829	11.766	-6.751	1.00	0.00	C
ATOM	105	H	MET A	10131.456	10.589	-6.452	1.00	0.00	H
ATOM	106	HA	MET A	10132.025	8.550	-4.532	1.00	0.00	H
ATOM	107	1HB	MET A	10134.463	9.076	-4.342	1.00	0.00	H
ATOM	108	2HB	MET A	10134.023	8.226	-5.817	1.00	0.00	H
ATOM	109	1HG	MET A	10134.315	10.123	-7.140	1.00	0.00	H
ATOM	110	2HG	MET A	10134.259	11.209	-5.752	1.00	0.00	H
ATOM	111	1HE	MET A	10137.179	11.598	-7.758	1.00	0.00	H
ATOM	112	2HE	MET A	10137.606	12.244	-6.174	1.00	0.00	H
ATOM	113	3HE	MET A	10135.957	12.404	-6.776	1.00	0.00	H
ATOM	114	N	PRO A	11131.087	10.866	-3.550	1.00	0.00	N

ATOM	115	CA	PRO A	11130.821	11.971	-2.624	1.00	0.00 C
ATOM	116	C	PRO A	11131.642	11.867	-1.340	1.00	0.00 C
ATOM	117	O	PRO A	11132.251	12.845	-0.908	1.00	0.00 O
ATOM	118	CB	PRO A	11129.326	11.848	-2.315	1.00	0.00 C
ATOM	119	CG	PRO A	11128.762	11.010	-3.412	1.00	0.00 C
ATOM	120	CD	PRO A	11129.869	10.103	-3.867	1.00	0.00 C
ATOM	121	HA	PRO A	11131.015	12.926	-3.092	1.00	0.00 H
ATOM	122	1HB	PRO A	11129.192	11.379	-1.351	1.00	0.00 H
ATOM	123	2HB	PRO A	11128.878	12.831	-2.304	1.00	0.00 H
ATOM	124	1HG	PRO A	11127.936	10.427	-3.036	1.00	0.00 H
ATOM	125	2HG	PRO A	11128.436	11.641	-4.225	1.00	0.00 H
ATOM	126	1HD	PRO A	11129.843	9.171	-3.321	1.00	0.00 H
ATOM	127	2HD	PRO A	11129.794	9.920	-4.929	1.00	0.00 H
ATOM	128	N	PRO A	12131.677	10.677	-0.709	1.00	0.00 N
ATOM	129	CA	PRO A	12132.438	10.469	0.528	1.00	0.00 C
ATOM	130	C	PRO A	12133.904	10.857	0.370	1.00	0.00 C
ATOM	131	O	PRO A	12134.589	11.145	1.352	1.00	0.00 O
ATOM	132	CB	PRO A	12132.309	8.965	0.784	1.00	0.00 C
ATOM	133	CG	PRO A	12131.074	8.556	0.061	1.00	0.00 C
ATOM	134	CD	PRO A	12130.989	9.447	-1.146	1.00	0.00 C
ATOM	135	HA	PRO A	12132.008	11.017	1.353	1.00	0.00 H
ATOM	136	1HB	PRO A	12133.180	8.455	0.397	1.00	0.00 H
ATOM	137	2HB	PRO A	12132.223	8.783	1.845	1.00	0.00 H
ATOM	138	1HG	PRO A	12131.149	7.522	-0.240	1.00	0.00 H
ATOM	139	2HG	PRO A	12130.212	8.703	0.695	1.00	0.00 H
ATOM	140	1HD	PRO A	12131.501	8.996	-1.984	1.00	0.00 H
ATOM	141	2HD	PRO A	12129.959	9.647	-1.395	1.00	0.00 H

ATOM	142	N	GLY A	13134.378	10.862	-0.872	1.00	0.00 N
ATOM	143	CA	GLY A	13135.761	11.216	-1.136	1.00	0.00 C
ATOM	144	C	GLY A	13136.420	10.278	-2.127	1.00	0.00 C
ATOM	145	O	GLY A	13136.953	10.716	-3.146	1.00	0.00 O
ATOM	146	H	GLY A	13133.785	10.624	-1.616	1.00	0.00 H
ATOM	147	1HA	GLY A	13135.794	12.220	-1.531	1.00	0.00 H
ATOM	148	2HA	GLY A	13136.311	11.187	-0.208	1.00	0.00 H
ATOM	149	N	ASN A	14136.385	8.983	-1.827	1.00	0.00 N
ATOM	150	CA	ASN A	14136.984	7.980	-2.698	1.00	0.00 C
ATOM	151	C	ASN A	14136.171	6.690	-2.683	1.00	0.00 C
ATOM	152	O	ASN A	14136.322	5.861	-1.785	1.00	0.00 O
ATOM	153	CB	ASN A	14138.424	7.694	-2.268	1.00	0.00 C
ATOM	154	CG	ASN A	14139.315	8.916	-2.382	1.00	0.00 C
ATOM	155	OD1	ASN A	14140.077	9.056	-3.338	1.00	0.00 O
ATOM	156	ND2	ASN A	14139.222	9.809	-1.403	1.00	0.00 N
ATOM	157	H	ASN A	14135.946	8.697	-0.999	1.00	0.00 H
ATOM	158	HA	ASN A	14136.990	8.375	-3.704	1.00	0.00 H
ATOM	159	1HB	ASN A	14138.428	7.364	-1.240	1.00	0.00 H
ATOM	160	2HB	ASN A	14138.832	6.914	-2.894	1.00	0.00 H
ATOM	161	1HD2	ASN A	14138.593	9.631	-0.673	1.00	0.00 H
ATOM	162	2HD2	ASN A	14139.787	10.609	-1.451	1.00	0.00 H
ATOM	163	N	SER A	15135.310	6.527	-3.682	1.00	0.00 N
ATOM	164	CA	SER A	15134.470	5.338	-3.787	1.00	0.00 C
ATOM	165	C	SER A	15133.494	5.253	-2.616	1.00	0.00 C
ATOM	166	O	SER A	15132.317	5.585	-2.753	1.00	0.00 O
ATOM	167	CB	SER A	15135.336	4.076	-3.840	1.00	0.00 C
ATOM	168	OG	SER A	15135.576	3.678	-5.179	1.00	0.00 O

ATOM	169	H	SER A	15135.237	7.224	-4.368	1.00	0.00	H
ATOM	170	HA	SER A	15133.905	5.413	-4.704	1.00	0.00	H
ATOM	171	1HB	SER A	15136.284	4.272	-3.361	1.00	0.00	H
ATOM	172	2HB	SER A	15134.832	3.273	-3.323	1.00	0.00	H
ATOM	173	HG	SER A	15136.355	4.129	-5.512	1.00	0.00	H
ATOM	174	N	HIS A	16133.990	4.808	-1.466	1.00	0.00	N
ATOM	175	CA	HIS A	16133.161	4.680	-0.273	1.00	0.00	C
ATOM	176	C	HIS A	16133.758	5.463	0.892	1.00	0.00	C
ATOM	177	O	HIS A	16133.046	6.158	1.616	1.00	0.00	O
ATOM	178	CB	HIS A	16133.007	3.208	0.111	1.00	0.00	C
ATOM	179	CG	HIS A	16131.982	2.480	-0.703	1.00	0.00	C
ATOM	180	ND1	HIS A	16130.635	2.772	-0.652	1.00	0.00	N
ATOM	181	CD2	HIS A	16132.113	1.469	-1.593	1.00	0.00	C
ATOM	182	CE1	HIS A	16129.982	1.969	-1.475	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.856	1.170	-2.059	1.00	0.00	N
ATOM	184	H	HIS A	16134.936	4.559	-1.419	1.00	0.00	H
ATOM	185	HA	HIS A	16132.187	5.087	-0.502	1.00	0.00	H
ATOM	186	1HB	HIS A	16133.953	2.708	-0.024	1.00	0.00	H
ATOM	187	2HB	HIS A	16132.715	3.143	1.149	1.00	0.00	H
ATOM	188	HD1	HIS A	16130.219	3.462	-0.095	1.00	0.00	H
ATOM	189	HD2	HIS A	16133.035	0.986	-1.884	1.00	0.00	H
ATOM	190	HE1	HIS A	16128.915	1.969	-1.642	1.00	0.00	H
ATOM	191	HE2	HIS A	16130.650	0.540	-2.779	1.00	0.00	H
ATOM	192	N	GLY A	17135.070	5.345	1.066	1.00	0.00	N
ATOM	193	CA	GLY A	17135.741	6.047	2.144	1.00	0.00	C
ATOM	194	C	GLY A	17137.087	5.436	2.485	1.00	0.00	C
ATOM	195	O	GLY A	17137.242	4.806	3.530	1.00	0.00	O

ATOM	196	H	GLY A	17135.587	4.777	0.457	1.00	0.00	H
ATOM	197	1HA	GLY A	17135.889	7.076	1.853	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.113	6.019	3.022	1.00	0.00	H
ATOM	199	N	LEU A	18138.060	5.623	1.600	1.00	0.00	N
ATOM	200	CA	LEU A	18139.399	5.086	1.811	1.00	0.00	C
ATOM	201	C	LEU A	18140.344	6.167	2.328	1.00	0.00	C
ATOM	202	O	LEU A	18140.685	7.103	1.606	1.00	0.00	O
ATOM	203	CB	LEU A	18139.946	4.493	0.511	1.00	0.00	C
ATOM	204	CG	LEU A	18139.060	3.428	-0.138	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.482	3.188	-1.579	1.00	0.00	C
ATOM	206	CD2	LEU A	18139.115	2.134	0.659	1.00	0.00	C
ATOM	207	H	LEU A	18137.874	6.134	0.784	1.00	0.00	H
ATOM	208	HA	LEU A	18139.328	4.303	2.551	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.082	5.298	-0.196	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.908	4.051	0.718	1.00	0.00	H
ATOM	211	HG	LEU A	18138.037	3.776	-0.144	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.230	2.178	-1.864	1.00	0.00	H
ATOM	213	2HD1	LEU A	18140.549	3.332	-1.670	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.969	3.883	-2.226	1.00	0.00	H
ATOM	215	1HD2	LEU A	18140.134	1.935	0.954	1.00	0.00	H
ATOM	216	2HD2	LEU A	18138.751	1.320	0.050	1.00	0.00	H
ATOM	217	3HD2	LEU A	18138.497	2.226	1.540	1.00	0.00	H
ATOM	218	N	GLU A	19140.763	6.029	3.581	1.00	0.00	N
ATOM	219	CA	GLU A	19141.670	6.993	4.194	1.00	0.00	C
ATOM	220	C	GLU A	19142.671	6.294	5.108	1.00	0.00	C
ATOM	221	O	GLU A	19142.581	5.089	5.338	1.00	0.00	O
ATOM	222	CB	GLU A	19140.878	8.036	4.986	1.00	0.00	C

ATOM	223	CG	GLU A	19139.943	7.432	6.022	1.00	0.00	C
ATOM	224	CD	GLU A	19138.972	8.446	6.592	1.00	0.00	C
ATOM	225	OE1	GLU A	19138.749	8.429	7.820	1.00	0.00	O
ATOM	226	OE2	GLU A	19138.435	9.259	5.810	1.00	0.00	O
ATOM	227	H	GLU A	19140.458	5.260	4.107	1.00	0.00	H
ATOM	228	HA	GLU A	19142.209	7.491	3.402	1.00	0.00	H
ATOM	229	1HB	GLU A	19141.573	8.686	5.497	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.288	8.623	4.298	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.378	6.637	5.558	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.535	7.027	6.830	1.00	0.00	H
ATOM	233	N	VAL A	20143.626	7.060	5.626	1.00	0.00	N
ATOM	234	CA	VAL A	20144.644	6.514	6.516	1.00	0.00	C
ATOM	235	C	VAL A	20144.014	5.893	7.757	1.00	0.00	C
ATOM	236	O	VAL A	20143.157	6.499	8.401	1.00	0.00	O
ATOM	237	CB	VAL A	20145.649	7.598	6.952	1.00	0.00	C
ATOM	238	CG1	VAL A	20146.811	6.976	7.710	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.147	8.381	5.747	1.00	0.00	C
ATOM	240	H	VAL A	20143.645	8.015	5.406	1.00	0.00	H
ATOM	241	HA	VAL A	20145.184	5.750	5.976	1.00	0.00	H
ATOM	242	HB	VAL A	20145.142	8.284	7.615	1.00	0.00	H
ATOM	243	1HG1	VAL A	20147.087	6.042	7.244	1.00	0.00	H
ATOM	244	2HG1	VAL A	20146.517	6.793	8.733	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.655	7.650	7.693	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.116	8.803	5.967	1.00	0.00	H
ATOM	247	2HG2	VAL A	20145.451	9.175	5.521	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.227	7.720	4.897	1.00	0.00	H
ATOM	249	N	GLY A	21144.445	4.680	8.089	1.00	0.00	N

ATOM	250	CA	GLY A	21143.912	3.996	9.253	1.00	0.00	C
ATOM	251	C	GLY A	21142.916	2.914	8.885	1.00	0.00	C
ATOM	252	O	GLY A	21142.848	1.876	9.542	1.00	0.00	O
ATOM	253	H	GLY A	21145.130	4.247	7.539	1.00	0.00	H
ATOM	254	1HA	GLY A	21144.730	3.548	9.799	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.424	4.720	9.888	1.00	0.00	H
ATOM	256	N	SER A	22142.142	3.158	7.834	1.00	0.00	N
ATOM	257	CA	SER A	22141.145	2.196	7.379	1.00	0.00	C
ATOM	258	C	SER A	22141.791	1.093	6.546	1.00	0.00	C
ATOM	259	O	SER A	22142.817	1.309	5.902	1.00	0.00	O
ATOM	260	CB	SER A	22140.061	2.901	6.561	1.00	0.00	C
ATOM	261	OG	SER A	22139.134	3.563	7.404	1.00	0.00	O
ATOM	262	H	SER A	22142.245	4.005	7.350	1.00	0.00	H
ATOM	263	HA	SER A	22140.691	1.752	8.253	1.00	0.00	H
ATOM	264	1HB	SER A	22140.522	3.631	5.911	1.00	0.00	H
ATOM	265	2HB	SER A	22139.532	2.172	5.965	1.00	0.00	H
ATOM	266	HG	SER A	22139.608	4.049	8.083	1.00	0.00	H
ATOM	267	N	LEU A	23141.182	-0.088	6.563	1.00	0.00	N
ATOM	268	CA	LEU A	23141.698	-1.224	5.809	1.00	0.00	C
ATOM	269	C	LEU A	23141.307	-1.125	4.338	1.00	0.00	C
ATOM	270	O	LEU A	23140.274	-0.549	3.998	1.00	0.00	O
ATOM	271	CB	LEU A	23141.177	-2.535	6.399	1.00	0.00	C
ATOM	272	CG	LEU A	23141.354	-2.680	7.911	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.277	-3.584	8.491	1.00	0.00	C
ATOM	274	CD2	LEU A	23142.738	-3.221	8.235	1.00	0.00	C
ATOM	275	H	LEU A	23140.367	-0.198	7.095	1.00	0.00	H
ATOM	276	HA	LEU A	23142.775	-1.210	5.884	1.00	0.00	H

ATOM	277	1HB	LEU A	23140.123	-2.612	6.172	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.693	-3.352	5.919	1.00	0.00	H
ATOM	279	HG	LEU A	23141.257	-1.708	8.373	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.028	-3.253	9.489	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.642	-4.600	8.529	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.396	-3.540	7.868	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.421	-2.963	7.439	1.00	0.00	H
ATOM	284	2HD2	LEU A	23142.691	-4.296	8.333	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.085	-2.791	9.162	1.00	0.00	H
ATOM	286	N	ALA A	24142.140	-1.689	3.470	1.00	0.00	N
ATOM	287	CA	ALA A	24141.882	-1.663	2.035	1.00	0.00	C
ATOM	288	C	ALA A	24142.477	-2.887	1.349	1.00	0.00	C
ATOM	289	O	ALA A	24143.416	-3.502	1.856	1.00	0.00	O
ATOM	290	CB	ALA A	24142.439	-0.388	1.421	1.00	0.00	C
ATOM	291	H	ALA A	24142.948	-2.133	3.802	1.00	0.00	H
ATOM	292	HA	ALA A	24140.811	-1.667	1.890	1.00	0.00	H
ATOM	293	1HB	ALA A	24143.407	-0.591	0.986	1.00	0.00	H
ATOM	294	2HB	ALA A	24142.541	0.365	2.188	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.767	-0.034	0.654	1.00	0.00	H
ATOM	296	N	GLU A	25141.926	-3.237	0.191	1.00	0.00	N
ATOM	297	CA	GLU A	25142.403	-4.388	-0.566	1.00	0.00	C
ATOM	298	C	GLU A	25142.632	-4.020	-2.029	1.00	0.00	C
ATOM	299	O	GLU A	25141.891	-3.223	-2.602	1.00	0.00	O
ATOM	300	CB	GLU A	25141.401	-5.540	-0.470	1.00	0.00	C
ATOM	301	CG	GLU A	25142.005	-6.899	-0.780	1.00	0.00	C
ATOM	302	CD	GLU A	25141.078	-7.776	-1.599	1.00	0.00	C
ATOM	303	OE1	GLU A	25141.583	-8.664	-2.319	1.00	0.00	O

ATOM	304	OE2	GLU A	25139.847	-7.577	-1.520	1.00	0.00	O
ATOM	305	H	GLU A	25141.181	-2.708	-0.163	1.00	0.00	H
ATOM	306	HA	GLU A	25143.341	-4.703	-0.135	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.998	-5.569	0.532	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.596	-5.360	-1.167	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.920	-6.755	-1.332	1.00	0.00	H
ATOM	310	2HG	GLU A	25142.223	-7.402	0.152	1.00	0.00	H
ATOM	311	N	VAL A	26143.664	-4.607	-2.627	1.00	0.00	N
ATOM	312	CA	VAL A	26143.992	-4.340	-4.022	1.00	0.00	C
ATOM	313	C	VAL A	26143.563	-5.497	-4.918	1.00	0.00	C
ATOM	314	O	VAL A	26143.381	-6.622	-4.450	1.00	0.00	O
ATOM	315	CB	VAL A	26145.500	-4.093	-4.208	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.793	-3.607	-5.619	1.00	0.00	C
ATOM	317	CG2	VAL A	26146.010	-3.097	-3.177	1.00	0.00	C
ATOM	318	H	VAL A	26144.220	-5.233	-2.117	1.00	0.00	H
ATOM	319	HA	VAL A	26143.462	-3.448	-4.325	1.00	0.00	H
ATOM	320	HB	VAL A	26146.019	-5.029	-4.060	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.913	-4.456	-6.276	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.700	-3.022	-5.618	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.972	-2.997	-5.968	1.00	0.00	H
ATOM	324	1HG2	VAL A	26146.053	-3.572	-2.209	1.00	0.00	H
ATOM	325	2HG2	VAL A	26145.341	-2.250	-3.133	1.00	0.00	H
ATOM	326	3HG2	VAL A	26146.998	-2.762	-3.457	1.00	0.00	H
ATOM	327	N	LYS A	27143.402	-5.215	-6.206	1.00	0.00	N
ATOM	328	CA	LYS A	27142.994	-6.233	-7.167	1.00	0.00	C
ATOM	329	C	LYS A	27144.201	-6.795	-7.911	1.00	0.00	C
ATOM	330	O	LYS A	27144.125	-7.090	-9.103	1.00	0.00	O

ATOM	331	CB	LYS A	27141.991	-5.650	-8.164	1.00	0.00	C
ATOM	332	CG	LYS A	27142.567	-4.539	-9.028	1.00	0.00	C
ATOM	333	CD	LYS A	27141.949	-4.536	-10.418	1.00	0.00	C
ATOM	334	CE	LYS A	27142.791	-5.328	-11.406	1.00	0.00	C
ATOM	335	NZ	LYS A	27141.989	-6.363	-12.115	1.00	0.00	N
ATOM	336	H	LYS A	27143.561	-4.300	-6.518	1.00	0.00	H
ATOM	337	HA	LYS A	27142.519	-7.033	-6.620	1.00	0.00	H
ATOM	338	1HB	LYS A	27141.647	-6.440	-8.815	1.00	0.00	H
ATOM	339	2HB	LYS A	27141.149	-5.252	-7.619	1.00	0.00	H
ATOM	340	1HG	LYS A	27142.369	-3.589	-8.556	1.00	0.00	H
ATOM	341	2HG	LYS A	27143.634	-4.683	-9.117	1.00	0.00	H
ATOM	342	1HD	LYS A	27140.966	-4.979	-10.364	1.00	0.00	H
ATOM	343	2HD	LYS A	27141.868	-3.516	-10.762	1.00	0.00	H
ATOM	344	1HE	LYS A	27143.204	-4.646	-12.134	1.00	0.00	H
ATOM	345	2HE	LYS A	27143.595	-5.812	-10.871	1.00	0.00	H
ATOM	346	1HZ	LYS A	27142.045	-7.269	-11.606	1.00	0.00	H
ATOM	347	2HZ	LYS A	27142.351	-6.497	-13.081	1.00	0.00	H
ATOM	348	3HZ	LYS A	27140.993	-6.068	-12.168	1.00	0.00	H
ATOM	349	N	GLU A	28145.314	-6.940	-7.199	1.00	0.00	N
ATOM	350	CA	GLU A	28146.537	-7.467	-7.793	1.00	0.00	C
ATOM	351	C	GLU A	28146.479	-8.988	-7.899	1.00	0.00	C
ATOM	352	O	GLU A	28145.509	-9.614	-7.472	1.00	0.00	O
ATOM	353	CB	GLU A	28147.753	-7.046	-6.964	1.00	0.00	C
ATOM	354	CG	GLU A	28148.886	-6.467	-7.797	1.00	0.00	C
ATOM	355	CD	GLU A	28150.212	-6.475	-7.064	1.00	0.00	C
ATOM	356	OE1	GLU A	28150.759	-5.379	-6.815	1.00	0.00	O
ATOM	357	OE2	GLU A	28150.704	-7.575	-6.738	1.00	0.00	O

ATOM	358	H	GLU A	28145.312	-6.687	-6.252	1.00	0.00	H
ATOM	359	HA	GLU A	28146.628	-7.052	-8.786	1.00	0.00	H
ATOM	360	1HB	GLU A	28147.445	-6.299	-6.248	1.00	0.00	H
ATOM	361	2HB	GLU A	28148.131	-7.908	-6.433	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.987	-7.052	-8.699	1.00	0.00	H
ATOM	363	2HG	GLU A	28148.639	-5.448	-8.058	1.00	0.00	H
ATOM	364	N	ASN A	29147.525	-9.576	-8.471	1.00	0.00	N
ATOM	365	CA	ASN A	29147.594	-11.024	-8.632	1.00	0.00	C
ATOM	366	C	ASN A	29147.522	-11.726	-7.277	1.00	0.00	C
ATOM	367	O	ASN A	29146.628	-12.537	-7.037	1.00	0.00	O
ATOM	368	CB	ASN A	29148.882	-11.416	-9.358	1.00	0.00	C
ATOM	369	CG	ASN A	29148.671	-11.604	-10.847	1.00	0.00	C
ATOM	370	OD1	ASN A	29148.987	-12.657	-11.403	1.00	0.00	O
ATOM	371	ND2	ASN A	29148.135	-10.581	-11.504	1.00	0.00	N
ATOM	372	H	ASN A	29148.269	-9.024	-8.791	1.00	0.00	H
ATOM	373	HA	ASN A	29146.747	-11.331	-9.228	1.00	0.00	H
ATOM	374	1HB	ASN A	29149.620	-10.641	-9.214	1.00	0.00	H
ATOM	375	2HB	ASN A	29149.253	-12.343	-8.946	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.909	-9.774	-10.996	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.987	-10.675	-12.468	1.00	0.00	H
ATOM	378	N	PRO A	30148.467	-11.421	-6.372	1.00	0.00	N
ATOM	379	CA	PRO A	30148.507	-12.026	-5.039	1.00	0.00	C
ATOM	380	C	PRO A	30147.460	-11.429	-4.099	1.00	0.00	C
ATOM	381	O	PRO A	30147.579	-10.276	-3.682	1.00	0.00	O
ATOM	382	CB	PRO A	30149.915	-11.691	-4.549	1.00	0.00	C
ATOM	383	CG	PRO A	30150.256	-10.414	-5.236	1.00	0.00	C
ATOM	384	CD	PRO A	30149.572	-10.463	-6.576	1.00	0.00	C

ATOM	385	HA	PRO A	30148.384	-13.098	-5.085	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.908	-11.575	-3.475	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.595	-12.482	-4.827	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.888	-9.578	-4.658	1.00	0.00	H
ATOM	389	2HG	PRO A	30151.326	-10.340	-5.363	1.00	0.00	H
ATOM	390	1HD	PRO A	30149.191	-9.487	-6.840	1.00	0.00	H
ATOM	391	2HD	PRO A	30150.254	-10.817	-7.334	1.00	0.00	H
ATOM	392	N	PRO A	31146.417	-12.204	-3.751	1.00	0.00	N
ATOM	393	CA	PRO A	31145.353	-11.735	-2.857	1.00	0.00	C
ATOM	394	C	PRO A	31145.844	-11.540	-1.426	1.00	0.00	C
ATOM	395	O	PRO A	31145.741	-12.443	-0.595	1.00	0.00	O
ATOM	396	CB	PRO A	31144.313	-12.857	-2.917	1.00	0.00	C
ATOM	397	CG	PRO A	31145.088	-14.071	-3.297	1.00	0.00	C
ATOM	398	CD	PRO A	31146.191	-13.592	-4.199	1.00	0.00	C
ATOM	399	HA	PRO A	31144.914	-10.815	-3.213	1.00	0.00	H
ATOM	400	1HB	PRO A	31143.847	-12.973	-1.949	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.565	-12.620	-3.658	1.00	0.00	H
ATOM	402	1HG	PRO A	31145.501	-14.535	-2.413	1.00	0.00	H
ATOM	403	2HG	PRO A	31144.449	-14.766	-3.823	1.00	0.00	H
ATOM	404	1HD	PRO A	31147.078	-14.192	-4.061	1.00	0.00	H
ATOM	405	2HD	PRO A	31145.872	-13.617	-5.230	1.00	0.00	H
ATOM	406	N	PHE A	32146.377	-10.356	-1.146	1.00	0.00	N
ATOM	407	CA	PHE A	32146.885	-10.041	0.185	1.00	0.00	C
ATOM	408	C	PHE A	32145.947	-9.083	0.912	1.00	0.00	C
ATOM	409	O	PHE A	32144.998	-8.562	0.324	1.00	0.00	O
ATOM	410	CB	PHE A	32148.283	-9.430	0.090	1.00	0.00	C
ATOM	411	CG	PHE A	32148.404	-8.366	-0.964	1.00	0.00	C

ATOM	412	CD1 PHE A	32147.687	-7.185	-0.859	1.00	0.00	C
ATOM	413	CD2 PHE A	32149.233	-8.548	-2.059	1.00	0.00	C
ATOM	414	CE1 PHE A	32147.796	-6.205	-1.827	1.00	0.00	C
ATOM	415	CE2 PHE A	32149.346	-7.572	-3.030	1.00	0.00	C
ATOM	416	CZ PHE A	32148.626	-6.397	-2.914	1.00	0.00	C
ATOM	417	H PHE A	32146.430	-9.677	-1.850	1.00	0.00	H
ATOM	418	HA PHE A	32146.941	-10.963	0.744	1.00	0.00	H
ATOM	419	1HB PHE A	32148.540	-8.987	1.040	1.00	0.00	H
ATOM	420	2HB PHE A	32148.994	-10.210	-0.141	1.00	0.00	H
ATOM	421	HD1 PHE A	32147.038	-7.032	-0.010	1.00	0.00	H
ATOM	422	HD2 PHE A	32149.796	-9.465	-2.151	1.00	0.00	H
ATOM	423	HE1 PHE A	32147.232	-5.289	-1.734	1.00	0.00	H
ATOM	424	HE2 PHE A	32149.995	-7.724	-3.879	1.00	0.00	H
ATOM	425	HZ PHE A	32148.712	-5.632	-3.672	1.00	0.00	H
ATOM	426	N TYR A	33146.217	-8.856	2.193	1.00	0.00	N
ATOM	427	CA TYR A	33145.397	-7.958	2.999	1.00	0.00	C
ATOM	428	C TYR A	33146.269	-6.990	3.793	1.00	0.00	C
ATOM	429	O TYR A	33147.270	-7.387	4.389	1.00	0.00	O
ATOM	430	CB TYR A	33144.511	-8.763	3.952	1.00	0.00	C
ATOM	431	CG TYR A	33143.249	-9.290	3.306	1.00	0.00	C
ATOM	432	CD1 TYR A	33142.903	-10.632	3.406	1.00	0.00	C
ATOM	433	CD2 TYR A	33142.405	-8.447	2.595	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.751	-11.118	2.817	1.00	0.00	C
ATOM	435	CE2 TYR A	33141.251	-8.925	2.003	1.00	0.00	C
ATOM	436	CZ TYR A	33140.929	-10.261	2.116	1.00	0.00	C
ATOM	437	OH TYR A	33139.781	-10.740	1.529	1.00	0.00	O
ATOM	438	H TYR A	33146.987	-9.300	2.605	1.00	0.00	H

ATOM	439	HA	TYR A	33144.769	-7.392	2.329	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.069	-9.608	4.325	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.222	-8.134	4.780	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.549	-11.302	3.956	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.661	-7.401	2.507	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.500	-12.165	2.907	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.609	-8.253	1.455	1.00	0.00	H
ATOM	446	HH	TYR A	33139.736	-10.436	0.620	1.00	0.00	H
ATOM	447	N	GLY A	34145.880	-5.719	3.796	1.00	0.00	N
ATOM	448	CA	GLY A	34146.637	-4.715	4.519	1.00	0.00	C
ATOM	449	C	GLY A	34145.778	-3.546	4.957	1.00	0.00	C
ATOM	450	O	GLY A	34144.551	-3.643	4.984	1.00	0.00	O
ATOM	451	H	GLY A	34145.074	-5.462	3.302	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.077	-5.172	5.393	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.427	-4.348	3.881	1.00	0.00	H
ATOM	454	N	VAL A	35146.423	-2.435	5.301	1.00	0.00	N
ATOM	455	CA	VAL A	35145.710	-1.242	5.740	1.00	0.00	C
ATOM	456	C	VAL A	35146.363	0.022	5.187	1.00	0.00	C
ATOM	457	O	VAL A	35147.577	0.070	4.991	1.00	0.00	O
ATOM	458	CB	VAL A	35145.657	-1.154	7.279	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.060	-1.060	7.861	1.00	0.00	C
ATOM	460	CG2	VAL A	35144.809	0.029	7.720	1.00	0.00	C
ATOM	461	H	VAL A	35147.402	-2.420	5.259	1.00	0.00	H
ATOM	462	HA	VAL A	35144.698	-1.304	5.370	1.00	0.00	H
ATOM	463	HB	VAL A	35145.199	-2.057	7.654	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.690	-1.812	7.406	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.020	-1.222	8.927	1.00	0.00	H

ATOM	466	3HG1 VAL A	35147.468	-0.080	7.660	1.00	0.00	H
ATOM	467	1HG2 VAL A	35143.784	-0.133	7.423	1.00	0.00	H
ATOM	468	2HG2 VAL A	35145.180	0.932	7.257	1.00	0.00	H
ATOM	469	3HG2 VAL A	35144.861	0.129	8.795	1.00	0.00	H
ATOM	470	N ILE A	36145.548	1.042	4.939	1.00	0.00	N
ATOM	471	CA ILE A	36146.046	2.306	4.409	1.00	0.00	C
ATOM	472	C ILE A	36146.970	2.992	5.410	1.00	0.00	C
ATOM	473	O ILE A	36146.688	3.027	6.607	1.00	0.00	O
ATOM	474	CB ILE A	36144.891	3.262	4.051	1.00	0.00	C
ATOM	475	CG1 ILE A	36143.876	2.558	3.149	1.00	0.00	C
ATOM	476	CG2 ILE A	36145.430	4.514	3.374	1.00	0.00	C
ATOM	477	CD1 ILE A	36142.709	3.435	2.752	1.00	0.00	C
ATOM	478	H ILE A	36144.590	0.943	5.117	1.00	0.00	H
ATOM	479	HA ILE A	36146.603	2.093	3.508	1.00	0.00	H
ATOM	480	HB ILE A	36144.404	3.561	4.967	1.00	0.00	H
ATOM	481	1HG1 ILE A	36144.369	2.234	2.246	1.00	0.00	H
ATOM	482	2HG1 ILE A	36143.482	1.695	3.667	1.00	0.00	H
ATOM	483	1HG2 ILE A	36146.162	4.235	2.630	1.00	0.00	H
ATOM	484	2HG2 ILE A	36145.893	5.152	4.112	1.00	0.00	H
ATOM	485	3HG2 ILE A	36144.618	5.044	2.898	1.00	0.00	H
ATOM	486	1HD1 ILE A	36142.535	3.343	1.690	1.00	0.00	H
ATOM	487	2HD1 ILE A	36142.935	4.464	2.992	1.00	0.00	H
ATOM	488	3HD1 ILE A	36141.826	3.126	3.290	1.00	0.00	H
ATOM	489	N ARG A	37148.076	3.535	4.910	1.00	0.00	N
ATOM	490	CA ARG A	37149.042	4.220	5.761	1.00	0.00	C
ATOM	491	C ARG A	37149.240	5.664	5.308	1.00	0.00	C
ATOM	492	O ARG A	37148.974	6.601	6.060	1.00	0.00	O

ATOM	493	CB	ARG A	37150.382	3.480	5.742	1.00	0.00	C
ATOM	494	CG	ARG A	37150.258	1.992	6.024	1.00	0.00	C
ATOM	495	CD	ARG A	37149.607	1.733	7.373	1.00	0.00	C
ATOM	496	NE	ARG A	37150.302	2.420	8.458	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.765	2.653	9.653	1.00	0.00	C
ATOM	498	NH1	ARG A	37148.527	2.255	9.921	1.00	0.00	N
ATOM	499	NH2	ARG A	37150.467	3.285	10.584	1.00	0.00	N
ATOM	500	H	ARG A	37148.246	3.474	3.947	1.00	0.00	H
ATOM	501	HA	ARG A	37148.656	4.221	6.768	1.00	0.00	H
ATOM	502	1HB	ARG A	37150.835	3.605	4.769	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.030	3.914	6.489	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.657	1.537	5.251	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.245	1.553	6.020	1.00	0.00	H
ATOM	506	1HD	ARG A	37148.585	2.079	7.337	1.00	0.00	H
ATOM	507	2HD	ARG A	37149.620	0.670	7.565	1.00	0.00	H
ATOM	508	HE	ARG A	37151.219	2.724	8.288	1.00	0.00	H
ATOM	509	1HH1	ARG A	37147.992	1.778	9.224	1.00	0.00	H
ATOM	510	2HH1	ARG A	37148.129	2.432	10.820	1.00	0.00	H
ATOM	511	1HH2	ARG A	37151.400	3.585	10.387	1.00	0.00	H
ATOM	512	2HH2	ARG A	37150.063	3.460	11.482	1.00	0.00	H
ATOM	513	N	TRP A	38149.705	5.835	4.075	1.00	0.00	N
ATOM	514	CA	TRP A	38149.938	7.166	3.525	1.00	0.00	C
ATOM	515	C	TRP A	38149.254	7.323	2.169	1.00	0.00	C
ATOM	516	O	TRP A	38149.360	6.454	1.304	1.00	0.00	O
ATOM	517	CB	TRP A	38151.441	7.431	3.388	1.00	0.00	C
ATOM	518	CG	TRP A	38151.763	8.666	2.600	1.00	0.00	C
ATOM	519	CD1	TRP A	38151.926	9.931	3.086	1.00	0.00	C

ATOM	520	CD2 TRP A	38151.955	8.752	1.183	1.00	0.00 C
ATOM	521	NE1 TRP A	38152.207	10.799	2.058	1.00	0.00 N
ATOM	522	CE2 TRP A	38152.231	10.098	0.880	1.00	0.00 C
ATOM	523	CE3 TRP A	38151.921	7.821	0.141	1.00	0.00 C
ATOM	524	CZ2 TRP A	38152.471	10.535	-0.422	1.00	0.00 C
ATOM	525	CZ3 TRP A	38152.159	8.254	-1.149	1.00	0.00 C
ATOM	526	CH2 TRP A	38152.431	9.601	-1.420	1.00	0.00 C
ATOM	527	H TRP A	38149.898	5.049	3.523	1.00	0.00 H
ATOM	528	HA TRP A	38149.516	7.885	4.211	1.00	0.00 H
ATOM	529	1HB TRP A	38151.871	7.544	4.373	1.00	0.00 H
ATOM	530	2HB TRP A	38151.904	6.589	2.894	1.00	0.00 H
ATOM	531	HD1 TRP A	38151.842	10.198	4.129	1.00	0.00 H
ATOM	532	HE1 TRP A	38152.366	11.761	2.153	1.00	0.00 H
ATOM	533	HE3 TRP A	38151.713	6.779	0.331	1.00	0.00 H
ATOM	534	HZ2 TRP A	38152.679	11.570	-0.648	1.00	0.00 H
ATOM	535	HZ3 TRP A	38152.138	7.548	-1.966	1.00	0.00 H
ATOM	536	HH2 TRP A	38152.612	9.895	-2.444	1.00	0.00 H
ATOM	537	N ILE A	39148.559	8.442	1.993	1.00	0.00 N
ATOM	538	CA ILE A	39147.864	8.725	0.744	1.00	0.00 C
ATOM	539	C ILE A	39148.314	10.064	0.170	1.00	0.00 C
ATOM	540	O ILE A	39147.947	11.122	0.681	1.00	0.00 O
ATOM	541	CB ILE A	39146.337	8.750	0.942	1.00	0.00 C
ATOM	542	CG1 ILE A	39145.876	7.502	1.698	1.00	0.00 C
ATOM	543	CG2 ILE A	39145.630	8.855	-0.400	1.00	0.00 C
ATOM	544	CD1 ILE A	39144.499	7.639	2.309	1.00	0.00 C
ATOM	545	H ILE A	39148.519	9.097	2.721	1.00	0.00 H
ATOM	546	HA ILE A	39148.104	7.941	0.041	1.00	0.00 H

ATOM	547	HB	ILE A	39146.085	9.626	1.522	1.00	0.00	H
ATOM	548	1HG1	ILE A	39145.854	6.665	1.016	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.575	7.294	2.494	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.098	9.626	-0.994	1.00	0.00	H
ATOM	551	2HG2	ILE A	39144.590	9.104	-0.243	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.699	7.909	-0.918	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.001	8.499	1.886	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.590	7.764	3.378	1.00	0.00	H
ATOM	555	3HD1	ILE A	39143.922	6.750	2.099	1.00	0.00	H
ATOM	556	N	GLY A	40149.115	10.011	-0.889	1.00	0.00	N
ATOM	557	CA	GLY A	40149.604	11.231	-1.504	1.00	0.00	C
ATOM	558	C	GLY A	40150.212	10.994	-2.873	1.00	0.00	C
ATOM	559	O	GLY A	40150.068	9.916	-3.447	1.00	0.00	O
ATOM	560	H	GLY A	40149.379	9.141	-1.252	1.00	0.00	H
ATOM	561	1HA	GLY A	40148.785	11.925	-1.603	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.353	11.667	-0.862	1.00	0.00	H
ATOM	563	N	GLN A	41150.892	12.010	-3.394	1.00	0.00	N
ATOM	564	CA	GLN A	41151.525	11.919	-4.703	1.00	0.00	C
ATOM	565	C	GLN A	41153.000	12.311	-4.618	1.00	0.00	C
ATOM	566	O	GLN A	41153.325	13.461	-4.321	1.00	0.00	O
ATOM	567	CB	GLN A	41150.799	12.825	-5.696	1.00	0.00	C
ATOM	568	CG	GLN A	41149.288	12.653	-5.685	1.00	0.00	C
ATOM	569	CD	GLN A	41148.551	13.969	-5.825	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.474	14.755	-4.881	1.00	0.00	O
ATOM	571	NE2	GLN A	41148.004	14.216	-7.009	1.00	0.00	N
ATOM	572	H	GLN A	41150.968	12.844	-2.886	1.00	0.00	H
ATOM	573	HA	GLN A	41151.451	10.897	-5.040	1.00	0.00	H

ATOM	574	1HB	GLN A	41151.023	13.853	-5.456	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.158	12.610	-6.690	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.005	12.010	-6.504	1.00	0.00	H
ATOM	577	2HG	GLN A	41148.999	12.192	-4.752	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.106	13.544	-7.715	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.522	15.061	-7.130	1.00	0.00	H
ATOM	580	N	PRO A	42153.917	11.361	-4.876	1.00	0.00	N
ATOM	581	CA	PRO A	42155.360	11.623	-4.822	1.00	0.00	C
ATOM	582	C	PRO A	42155.779	12.746	-5.766	1.00	0.00	C
ATOM	583	O	PRO A	42155.066	13.071	-6.715	1.00	0.00	O
ATOM	584	CB	PRO A	42155.986	10.295	-5.261	1.00	0.00	C
ATOM	585	CG	PRO A	42154.937	9.272	-5.000	1.00	0.00	C
ATOM	586	CD	PRO A	42153.626	9.962	-5.237	1.00	0.00	C
ATOM	587	HA	PRO A	42155.680	11.861	-3.819	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.239	10.344	-6.311	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.877	10.105	-4.680	1.00	0.00	H
ATOM	590	1HG	PRO A	42155.053	8.442	-5.681	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.002	8.931	-3.976	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.340	9.882	-6.276	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.859	9.550	-4.598	1.00	0.00	H
ATOM	594	N	PRO A	43156.951	13.355	-5.515	1.00	0.00	N
ATOM	595	CA	PRO A	43157.466	14.446	-6.347	1.00	0.00	C
ATOM	596	C	PRO A	43157.941	13.958	-7.711	1.00	0.00	C
ATOM	597	O	PRO A	43159.115	13.636	-7.891	1.00	0.00	O
ATOM	598	CB	PRO A	43158.643	14.986	-5.535	1.00	0.00	C
ATOM	599	CG	PRO A	43159.098	13.830	-4.714	1.00	0.00	C
ATOM	600	CD	PRO A	43157.863	13.027	-4.403	1.00	0.00	C

ATOM	601	HA	PRO A	43156.729	15.225	-6.481	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.419	15.323	-6.207	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.312	15.805	-4.915	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.800	13.233	-5.277	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.553	14.185	-3.800	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.092	11.973	-4.391	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.442	13.334	-3.457	1.00	0.00	H
ATOM	608	N	GLY A	44157.022	13.906	-8.667	1.00	0.00	N
ATOM	609	CA	GLY A	44157.369	13.457	-10.002	1.00	0.00	C
ATOM	610	C	GLY A	44156.170	12.942	-10.771	1.00	0.00	C
ATOM	611	O	GLY A	44155.925	13.359	-11.903	1.00	0.00	O
ATOM	612	H	GLY A	44156.101	14.175	-8.467	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.804	14.281	-10.546	1.00	0.00	H
ATOM	614	2HA	GLY A	44158.100	12.664	-9.924	1.00	0.00	H
ATOM	615	N	LEU A	45155.420	12.034	-10.156	1.00	0.00	N
ATOM	616	CA	LEU A	45154.240	11.463	-10.793	1.00	0.00	C
ATOM	617	C	LEU A	45152.994	11.726	-9.956	1.00	0.00	C
ATOM	618	O	LEU A	45152.847	11.184	-8.860	1.00	0.00	O
ATOM	619	CB	LEU A	45154.422	9.959	-10.999	1.00	0.00	C
ATOM	620	CG	LEU A	45154.906	9.191	-9.766	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.533	7.718	-9.873	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.411	9.354	-9.592	1.00	0.00	C
ATOM	623	H	LEU A	45155.664	11.743	-9.251	1.00	0.00	H
ATOM	624	HA	LEU A	45154.119	11.938	-11.754	1.00	0.00	H
ATOM	625	1HB	LEU A	45153.476	9.542	-11.310	1.00	0.00	H
ATOM	626	2HB	LEU A	45155.140	9.810	-11.791	1.00	0.00	H
ATOM	627	HG	LEU A	45154.421	9.594	-8.889	1.00	0.00	H

ATOM	628	1HD1	LEU A	45155.414	7.111	-9.728	1.00	0.00	H
ATOM	629	2HD1	LEU A	45154.117	7.521	-10.849	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.803	7.477	-9.114	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.770	10.126	-10.257	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.904	8.422	-9.824	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.626	9.631	-8.571	1.00	0.00	H
ATOM	634	N	ASN A	46152.096	12.558	-10.474	1.00	0.00	N
ATOM	635	CA	ASN A	46150.868	12.879	-9.761	1.00	0.00	C
ATOM	636	C	ASN A	46149.905	11.697	-9.796	1.00	0.00	C
ATOM	637	O	ASN A	46149.319	11.390	-10.834	1.00	0.00	O
ATOM	638	CB	ASN A	46150.205	14.113	-10.378	1.00	0.00	C
ATOM	639	CG	ASN A	46149.419	14.917	-9.361	1.00	0.00	C
ATOM	640	OD1	ASN A	46148.199	15.047	-9.464	1.00	0.00	O
ATOM	641	ND2	ASN A	46150.117	15.463	-8.372	1.00	0.00	N
ATOM	642	H	ASN A	46152.264	12.961	-11.350	1.00	0.00	H
ATOM	643	HA	ASN A	46151.123	13.092	-8.733	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.967	14.749	-10.800	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.530	13.797	-11.160	1.00	0.00	H
ATOM	646	1HD2	ASN A	46151.086	15.318	-8.353	1.00	0.00	H
ATOM	647	2HD2	ASN A	46149.634	15.989	-7.700	1.00	0.00	H
ATOM	648	N	GLU A	47149.747	11.040	-8.654	1.00	0.00	N
ATOM	649	CA	GLU A	47148.857	9.891	-8.546	1.00	0.00	C
ATOM	650	C	GLU A	47148.612	9.532	-7.084	1.00	0.00	C
ATOM	651	O	GLU A	47149.551	9.232	-6.346	1.00	0.00	O
ATOM	652	CB	GLU A	47149.445	8.687	-9.288	1.00	0.00	C
ATOM	653	CG	GLU A	47150.953	8.556	-9.150	1.00	0.00	C
ATOM	654	CD	GLU A	47151.556	7.633	-10.192	1.00	0.00	C

ATOM	655	OE1	GLU A	47151.850	6.467	-9.853	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.731	8.076	-11.347	1.00	0.00	O
ATOM	657	H	GLU A	47150.243	11.335	-7.862	1.00	0.00	H
ATOM	658	HA	GLU A	47147.916	10.158	-9.000	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.991	7.786	-8.902	1.00	0.00	H
ATOM	660	2HB	GLU A	47149.208	8.776	-10.338	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.398	9.534	-9.258	1.00	0.00	H
ATOM	662	2HG	GLU A	47151.182	8.166	-8.169	1.00	0.00	H
ATOM	663	N	VAL A	48147.351	9.557	-6.671	1.00	0.00	N
ATOM	664	CA	VAL A	48146.997	9.226	-5.298	1.00	0.00	C
ATOM	665	C	VAL A	48147.343	7.775	-4.989	1.00	0.00	C
ATOM	666	O	VAL A	48146.591	6.861	-5.329	1.00	0.00	O
ATOM	667	CB	VAL A	48145.499	9.456	-5.029	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.192	9.299	-3.547	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.072	10.828	-5.527	1.00	0.00	C
ATOM	670	H	VAL A	48146.643	9.799	-7.304	1.00	0.00	H
ATOM	671	HA	VAL A	48147.567	9.869	-4.641	1.00	0.00	H
ATOM	672	HB	VAL A	48144.938	8.708	-5.570	1.00	0.00	H
ATOM	673	1HG1	VAL A	48144.163	9.571	-3.362	1.00	0.00	H
ATOM	674	2HG1	VAL A	48145.843	9.943	-2.974	1.00	0.00	H
ATOM	675	3HG1	VAL A	48145.351	8.273	-3.252	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.130	11.099	-5.073	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.958	10.801	-6.601	1.00	0.00	H
ATOM	678	3HG2	VAL A	48145.822	11.558	-5.263	1.00	0.00	H
ATOM	679	N	LEU A	49148.487	7.569	-4.345	1.00	0.00	N
ATOM	680	CA	LEU A	49148.934	6.227	-3.994	1.00	0.00	C
ATOM	681	C	LEU A	49148.788	5.983	-2.498	1.00	0.00	C

ATOM	682	O	LEU A	49149.449	6.633	-1.687	1.00	0.00	O
ATOM	683	CB	LEU A	49150.390	6.023	-4.417	1.00	0.00	C
ATOM	684	CG	LEU A	49150.667	6.237	-5.906	1.00	0.00	C
ATOM	685	CD1	LEU A	49152.113	6.656	-6.125	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.352	4.974	-6.693	1.00	0.00	C
ATOM	687	H	LEU A	49149.045	8.336	-4.102	1.00	0.00	H
ATOM	688	HA	LEU A	49148.313	5.521	-4.524	1.00	0.00	H
ATOM	689	1HB	LEU A	49151.005	6.711	-3.855	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.680	5.015	-4.162	1.00	0.00	H
ATOM	691	HG	LEU A	49150.032	7.029	-6.275	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.177	7.734	-6.140	1.00	0.00	H
ATOM	693	2HD1	LEU A	49152.464	6.261	-7.067	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.725	6.271	-5.323	1.00	0.00	H
ATOM	695	1HD2	LEU A	49151.242	4.367	-6.770	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.012	5.241	-7.682	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.579	4.416	-6.185	1.00	0.00	H
ATOM	698	N	ALA A	50147.919	5.047	-2.139	1.00	0.00	N
ATOM	699	CA	ALA A	50147.689	4.724	-0.738	1.00	0.00	C
ATOM	700	C	ALA A	50148.600	3.591	-0.281	1.00	0.00	C
ATOM	701	O	ALA A	50148.489	2.461	-0.758	1.00	0.00	O
ATOM	702	CB	ALA A	50146.230	4.357	-0.514	1.00	0.00	C
ATOM	703	H	ALA A	50147.421	4.564	-2.831	1.00	0.00	H
ATOM	704	HA	ALA A	50147.909	5.608	-0.156	1.00	0.00	H
ATOM	705	1HB	ALA A	50145.901	4.754	0.435	1.00	0.00	H
ATOM	706	2HB	ALA A	50146.126	3.282	-0.509	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.628	4.775	-1.307	1.00	0.00	H
ATOM	708	N	GLY A	51149.502	3.899	0.645	1.00	0.00	N

ATOM	709	CA	GLY A	51150.420	2.895	1.151	1.00	0.00	C
ATOM	710	C	GLY A	51149.722	1.838	1.983	1.00	0.00	C
ATOM	711	O	GLY A	51149.241	2.120	3.081	1.00	0.00	O
ATOM	712	H	GLY A	51149.545	4.816	0.988	1.00	0.00	H
ATOM	713	1HA	GLY A	51150.907	2.415	0.315	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.168	3.381	1.759	1.00	0.00	H
ATOM	715	N	LEU A	52149.667	0.617	1.461	1.00	0.00	N
ATOM	716	CA	LEU A	52149.023	-0.486	2.164	1.00	0.00	C
ATOM	717	C	LEU A	52150.052	-1.340	2.897	1.00	0.00	C
ATOM	718	O	LEU A	52151.062	-1.744	2.320	1.00	0.00	O
ATOM	719	CB	LEU A	52148.231	-1.352	1.183	1.00	0.00	C
ATOM	720	CG	LEU A	52146.974	-0.695	0.609	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.452	-1.490	-0.579	1.00	0.00	C
ATOM	722	CD2	LEU A	52145.903	-0.569	1.680	1.00	0.00	C
ATOM	723	H	LEU A	52150.068	0.453	0.582	1.00	0.00	H
ATOM	724	HA	LEU A	52148.342	-0.064	2.889	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.882	-1.616	0.362	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.935	-2.258	1.692	1.00	0.00	H
ATOM	727	HG	LEU A	52147.222	0.298	0.262	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.685	-2.174	-0.246	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.263	-2.047	-1.023	1.00	0.00	H
ATOM	730	3HD1	LEU A	52146.037	-0.812	-1.311	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.344	0.343	1.526	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.368	-0.544	2.655	1.00	0.00	H
ATOM	733	3HD2	LEU A	52145.234	-1.414	1.622	1.00	0.00	H
ATOM	734	N	GLU A	53149.790	-1.612	4.171	1.00	0.00	N
ATOM	735	CA	GLU A	53150.694	-2.418	4.983	1.00	0.00	C

ATOM	736	C	GLU A	53150.200	-3.859	5.076	1.00	0.00	C
ATOM	737	O	GLU A	53149.205	-4.142	5.744	1.00	0.00	O
ATOM	738	CB	GLU A	53150.826	-1.819	6.384	1.00	0.00	C
ATOM	739	CG	GLU A	53151.783	-2.584	7.284	1.00	0.00	C
ATOM	740	CD	GLU A	53151.317	-2.629	8.726	1.00	0.00	C
ATOM	741	OE1	GLU A	53151.200	-1.550	9.345	1.00	0.00	O
ATOM	742	OE2	GLU A	53151.071	-3.742	9.236	1.00	0.00	O
ATOM	743	H	GLU A	53148.969	-1.262	4.575	1.00	0.00	H
ATOM	744	HA	GLU A	53151.662	-2.413	4.505	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.182	-0.804	6.297	1.00	0.00	H
ATOM	746	2HB	GLU A	53149.854	-1.812	6.853	1.00	0.00	H
ATOM	747	1HG	GLU A	53151.870	-3.597	6.919	1.00	0.00	H
ATOM	748	2HG	GLU A	53152.751	-2.105	7.248	1.00	0.00	H
ATOM	749	N	LEU A	54150.903	-4.765	4.405	1.00	0.00	N
ATOM	750	CA	LEU A	54150.537	-6.176	4.412	1.00	0.00	C
ATOM	751	C	LEU A	54150.705	-6.775	5.805	1.00	0.00	C
ATOM	752	O	LEU A	54151.577	-6.360	6.568	1.00	0.00	O
ATOM	753	CB	LEU A	54151.389	-6.950	3.404	1.00	0.00	C
ATOM	754	CG	LEU A	54151.447	-6.342	2.002	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.766	-6.680	1.327	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.276	-6.829	1.162	1.00	0.00	C
ATOM	757	H	LEU A	54151.686	-4.477	3.891	1.00	0.00	H
ATOM	758	HA	LEU A	54149.498	-6.250	4.124	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.396	-7.013	3.790	1.00	0.00	H
ATOM	760	2HB	LEU A	54150.990	-7.951	3.321	1.00	0.00	H
ATOM	761	HG	LEU A	54151.378	-5.266	2.081	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.136	-7.620	1.710	1.00	0.00	H

ATOM	763	2HD1	LEU A	54153.485	-5.901	1.531	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.615	-6.761	0.261	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.455	-7.099	1.811	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.578	-7.692	0.589	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.962	-6.043	0.492	1.00	0.00	H
ATOM	768	N	GLU A	55149.864	-7.752	6.128	1.00	0.00	N
ATOM	769	CA	GLU A	55149.920	-8.408	7.429	1.00	0.00	C
ATOM	770	C	GLU A	55151.075	-9.402	7.489	1.00	0.00	C
ATOM	771	O	GLU A	55151.677	-9.606	8.543	1.00	0.00	O
ATOM	772	CB	GLU A	55148.600	-9.124	7.719	1.00	0.00	C
ATOM	773	CG	GLU A	55147.559	-8.237	8.381	1.00	0.00	C
ATOM	774	CD	GLU A	55146.145	-8.576	7.952	1.00	0.00	C
ATOM	775	OE1	GLU A	55145.281	-7.675	7.989	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.902	-9.743	7.576	1.00	0.00	O
ATOM	777	H	GLU A	55149.191	-8.038	5.477	1.00	0.00	H
ATOM	778	HA	GLU A	55150.077	-7.646	8.178	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.191	-9.491	6.789	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.794	-9.962	8.371	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.631	-8.356	9.452	1.00	0.00	H
ATOM	782	2HG	GLU A	55147.762	-7.209	8.120	1.00	0.00	H
ATOM	783	N	ASP A	56151.380	-10.017	6.351	1.00	0.00	N
ATOM	784	CA	ASP A	56152.464	-10.989	6.275	1.00	0.00	C
ATOM	785	C	ASP A	56153.720	-10.358	5.682	1.00	0.00	C
ATOM	786	O	ASP A	56153.639	-9.461	4.844	1.00	0.00	O
ATOM	787	CB	ASP A	56152.038	-12.194	5.434	1.00	0.00	C
ATOM	788	CG	ASP A	56152.656	-13.489	5.924	1.00	0.00	C
ATOM	789	OD1	ASP A	56151.930	-14.502	5.999	1.00	0.00	O

ATOM	790	OD2	ASP A	56153.866	-13.489	6.233	1.00	0.00	O
ATOM	791	H	ASP A	56150.865	-9.811	5.544	1.00	0.00	H
ATOM	792	HA	ASP A	56152.682	-11.322	7.278	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.963	-12.292	5.474	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.343	-12.036	4.409	1.00	0.00	H
ATOM	795	N	GLU A	57154.880	-10.835	6.122	1.00	0.00	N
ATOM	796	CA	GLU A	57156.153	-10.318	5.635	1.00	0.00	C
ATOM	797	C	GLU A	57156.464	-10.862	4.244	1.00	0.00	C
ATOM	798	O	GLU A	57157.189	-11.845	4.098	1.00	0.00	O
ATOM	799	CB	GLU A	57157.281	-10.684	6.601	1.00	0.00	C
ATOM	800	CG	GLU A	57157.059	-10.172	8.016	1.00	0.00	C
ATOM	801	CD	GLU A	57156.643	-11.271	8.975	1.00	0.00	C
ATOM	802	OE1	GLU A	57155.525	-11.806	8.817	1.00	0.00	O
ATOM	803	OE2	GLU A	57157.435	-11.596	9.885	1.00	0.00	O
ATOM	804	H	GLU A	57154.880	-11.552	6.790	1.00	0.00	H
ATOM	805	HA	GLU A	57156.074	-9.242	5.579	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.370	-11.760	6.641	1.00	0.00	H
ATOM	807	2HB	GLU A	57158.206	-10.268	6.231	1.00	0.00	H
ATOM	808	1HG	GLU A	57157.977	-9.732	8.374	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.284	-9.419	7.995	1.00	0.00	H
ATOM	810	N	CYS A	58155.911	-10.214	3.224	1.00	0.00	N
ATOM	811	CA	CYS A	58156.129	-10.631	1.844	1.00	0.00	C
ATOM	812	C	CYS A	58157.505	-10.192	1.354	1.00	0.00	C
ATOM	813	O	CYS A	58157.859	-9.016	1.437	1.00	0.00	O
ATOM	814	CB	CYS A	58155.043	-10.051	0.935	1.00	0.00	C
ATOM	815	SG	CYS A	58153.516	-11.020	0.901	1.00	0.00	S
ATOM	816	H	CYS A	58155.341	-9.436	3.404	1.00	0.00	H

ATOM	817	HA	CYS A	58156.076	-11.709	1.812	1.00	0.00	H
ATOM	818	1HB	CYS A	58154.793	-9.057	1.275	1.00	0.00	H
ATOM	819	2HB	CYS A	58155.420	-9.996	-0.075	1.00	0.00	H
ATOM	820	HG	CYS A	58153.511	-11.593	1.672	1.00	0.00	H
ATOM	821	N	ALA A	59158.278	-11.145	0.842	1.00	0.00	N
ATOM	822	CA	ALA A	59159.615	-10.857	0.338	1.00	0.00	C
ATOM	823	C	ALA A	59159.552	-10.057	-0.958	1.00	0.00	C
ATOM	824	O	ALA A	59159.080	-10.551	-1.981	1.00	0.00	O
ATOM	825	CB	ALA A	59160.388	-12.149	0.126	1.00	0.00	C
ATOM	826	H	ALA A	59157.939	-12.064	0.802	1.00	0.00	H
ATOM	827	HA	ALA A	59160.133	-10.274	1.085	1.00	0.00	H
ATOM	828	1HB	ALA A	59159.764	-12.860	-0.395	1.00	0.00	H
ATOM	829	2HB	ALA A	59160.677	-12.557	1.084	1.00	0.00	H
ATOM	830	3HB	ALA A	59161.272	-11.948	-0.460	1.00	0.00	H
ATOM	831	N	GLY A	60160.031	-8.818	-0.907	1.00	0.00	N
ATOM	832	CA	GLY A	60160.020	-7.970	-2.084	1.00	0.00	C
ATOM	833	C	GLY A	60159.553	-6.560	-1.778	1.00	0.00	C
ATOM	834	O	GLY A	60159.945	-5.608	-2.455	1.00	0.00	O
ATOM	835	H	GLY A	60160.396	-8.478	-0.063	1.00	0.00	H
ATOM	836	1HA	GLY A	60161.020	-7.926	-2.491	1.00	0.00	H
ATOM	837	2HA	GLY A	60159.362	-8.403	-2.821	1.00	0.00	H
ATOM	838	N	CYS A	61158.713	-6.425	-0.757	1.00	0.00	N
ATOM	839	CA	CYS A	61158.192	-5.122	-0.363	1.00	0.00	C
ATOM	840	C	CYS A	61159.189	-4.380	0.519	1.00	0.00	C
ATOM	841	O	CYS A	61160.222	-4.931	0.904	1.00	0.00	O
ATOM	842	CB	CYS A	61156.861	-5.283	0.375	1.00	0.00	C
ATOM	843	SG	CYS A	61155.608	-6.197	-0.553	1.00	0.00	S

ATOM	844	H	CYS A	61158.438	-7.221	-0.257	1.00	0.00	H
ATOM	845	HA	CYS A	61158.026	-4.545	-1.262	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.035	-5.812	1.301	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.460	-4.305	0.595	1.00	0.00	H
ATOM	848	HG	CYS A	61154.811	-5.662	-0.582	1.00	0.00	H
ATOM	849	N	THR A	62158.876	-3.128	0.835	1.00	0.00	N
ATOM	850	CA	THR A	62159.746	-2.310	1.673	1.00	0.00	C
ATOM	851	C	THR A	62159.171	-2.169	3.078	1.00	0.00	C
ATOM	852	O	THR A	62158.132	-2.748	3.397	1.00	0.00	O
ATOM	853	CB	THR A	62159.940	-0.929	1.047	1.00	0.00	C
ATOM	854	OG1	THR A	62158.694	-0.283	0.860	1.00	0.00	O
ATOM	855	CG2	THR A	62160.641	-0.973	-0.294	1.00	0.00	C
ATOM	856	H	THR A	62158.040	-2.744	0.498	1.00	0.00	H
ATOM	857	HA	THR A	62160.704	-2.805	1.737	1.00	0.00	H
ATOM	858	HB	THR A	62160.540	-0.325	1.712	1.00	0.00	H
ATOM	859	HG1	THR A	62158.840	0.602	0.518	1.00	0.00	H
ATOM	860	1HG2	THR A	62160.440	-1.919	-0.774	1.00	0.00	H
ATOM	861	2HG2	THR A	62161.705	-0.862	-0.148	1.00	0.00	H
ATOM	862	3HG2	THR A	62160.277	-0.169	-0.917	1.00	0.00	H
ATOM	863	N	ASP A	63159.853	-1.394	3.916	1.00	0.00	N
ATOM	864	CA	ASP A	63159.410	-1.175	5.289	1.00	0.00	C
ATOM	865	C	ASP A	63158.661	0.148	5.414	1.00	0.00	C
ATOM	866	O	ASP A	63158.703	0.800	6.457	1.00	0.00	O
ATOM	867	CB	ASP A	63160.606	-1.189	6.241	1.00	0.00	C
ATOM	868	CG	ASP A	63161.704	-0.240	5.805	1.00	0.00	C
ATOM	869	OD1	ASP A	63161.752	0.893	6.328	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.517	-0.629	4.939	1.00	0.00	O

ATOM	871	H	ASP A	63160.674	-0.958	3.604	1.00	0.00	H
ATOM	872	HA	ASP A	63158.741	-1.980	5.553	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.276	-0.899	7.227	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.013	-2.189	6.282	1.00	0.00	H
ATOM	875	N	GLY A	64157.976	0.538	4.344	1.00	0.00	N
ATOM	876	CA	GLY A	64157.227	1.781	4.356	1.00	0.00	C
ATOM	877	C	GLY A	64157.980	2.918	3.692	1.00	0.00	C
ATOM	878	O	GLY A	64158.006	4.037	4.204	1.00	0.00	O
ATOM	879	H	GLY A	64157.978	-0.022	3.540	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.292	1.631	3.836	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.018	2.053	5.380	1.00	0.00	H
ATOM	882	N	THR A	65158.594	2.630	2.549	1.00	0.00	N
ATOM	883	CA	THR A	65159.351	3.636	1.814	1.00	0.00	C
ATOM	884	C	THR A	65159.077	3.536	0.317	1.00	0.00	C
ATOM	885	O	THR A	65159.346	2.511	-0.307	1.00	0.00	O
ATOM	886	CB	THR A	65160.848	3.475	2.081	1.00	0.00	C
ATOM	887	OG1	THR A	65161.266	2.148	1.810	1.00	0.00	O
ATOM	888	CG2	THR A	65161.239	3.795	3.508	1.00	0.00	C
ATOM	889	H	THR A	65158.536	1.720	2.192	1.00	0.00	H
ATOM	890	HA	THR A	65159.035	4.608	2.162	1.00	0.00	H
ATOM	891	HB	THR A	65161.394	4.143	1.431	1.00	0.00	H
ATOM	892	HG1	THR A	65161.056	1.927	0.900	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.578	4.555	3.900	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.256	4.158	3.530	1.00	0.00	H
ATOM	895	3HG2	THR A	65161.162	2.904	4.112	1.00	0.00	H
ATOM	896	N	PHE A	66158.540	4.610	-0.254	1.00	0.00	N
ATOM	897	CA	PHE A	66158.230	4.645	-1.678	1.00	0.00	C

ATOM	898	C	PHE A	66159.285	5.435	-2.446	1.00	0.00 C
ATOM	899	O	PHE A	66159.348	6.660	-2.351	1.00	0.00 O
ATOM	900	CB	PHE A	66156.848	5.261	-1.905	1.00	0.00 C
ATOM	901	CG	PHE A	66156.258	4.935	-3.248	1.00	0.00 C
ATOM	902	CD1	PHE A	66155.882	5.945	-4.118	1.00	0.00 C
ATOM	903	CD2	PHE A	66156.081	3.618	-3.638	1.00	0.00 C
ATOM	904	CE1	PHE A	66155.340	5.647	-5.354	1.00	0.00 C
ATOM	905	CE2	PHE A	66155.538	3.314	-4.873	1.00	0.00 C
ATOM	906	CZ	PHE A	66155.167	4.330	-5.732	1.00	0.00 C
ATOM	907	H	PHE A	66158.348	5.398	0.296	1.00	0.00 H
ATOM	908	HA	PHE A	66158.224	3.628	-2.040	1.00	0.00 H
ATOM	909	1HB	PHE A	66156.171	4.898	-1.148	1.00	0.00 H
ATOM	910	2HB	PHE A	66156.925	6.337	-1.827	1.00	0.00 H
ATOM	911	HD1	PHE A	66156.018	6.976	-3.824	1.00	0.00 H
ATOM	912	HD2	PHE A	66156.370	2.822	-2.968	1.00	0.00 H
ATOM	913	HE1	PHE A	66155.051	6.445	-6.023	1.00	0.00 H
ATOM	914	HE2	PHE A	66155.404	2.283	-5.166	1.00	0.00 H
ATOM	915	HZ	PHE A	66154.743	4.096	-6.696	1.00	0.00 H
ATOM	916	N	ARG A	67160.111	4.724	-3.207	1.00	0.00 N
ATOM	917	CA	ARG A	67161.164	5.358	-3.991	1.00	0.00 C
ATOM	918	C	ARG A	67162.128	6.124	-3.090	1.00	0.00 C
ATOM	919	O	ARG A	67162.576	7.219	-3.430	1.00	0.00 O
ATOM	920	CB	ARG A	67160.557	6.304	-5.029	1.00	0.00 C
ATOM	921	CG	ARG A	67159.739	5.593	-6.096	1.00	0.00 C
ATOM	922	CD	ARG A	67160.131	6.041	-7.495	1.00	0.00 C
ATOM	923	NE	ARG A	67161.016	5.080	-8.150	1.00	0.00 N
ATOM	924	CZ	ARG A	67161.773	5.370	-9.206	1.00	0.00 C

ATOM	925	NH1	ARG A	67161.755	6.590	-9.731	1.00	0.00	N
ATOM	926	NH2	ARG A	67162.549	4.437	-9.741	1.00	0.00	N
ATOM	927	H	ARG A	67160.011	3.750	-3.241	1.00	0.00	H
ATOM	928	HA	ARG A	67161.711	4.580	-4.503	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.912	7.008	-4.523	1.00	0.00	H
ATOM	930	2HB	ARG A	67161.353	6.846	-5.516	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.904	4.529	-6.012	1.00	0.00	H
ATOM	932	2HG	ARG A	67158.693	5.810	-5.938	1.00	0.00	H
ATOM	933	1HD	ARG A	67159.236	6.154	-8.088	1.00	0.00	H
ATOM	934	2HD	ARG A	67160.638	6.994	-7.425	1.00	0.00	H
ATOM	935	HE	ARG A	67161.048	4.172	-7.783	1.00	0.00	H
ATOM	936	1HH1	ARG A	67161.172	7.297	-9.333	1.00	0.00	H
ATOM	937	2HH1	ARG A	67162.325	6.801	-10.524	1.00	0.00	H
ATOM	938	1HH2	ARG A	67162.566	3.516	-9.351	1.00	0.00	H
ATOM	939	2HH2	ARG A	67163.117	4.653	-10.535	1.00	0.00	H
ATOM	940	N	GLY A	68162.443	5.540	-1.939	1.00	0.00	N
ATOM	941	CA	GLY A	68163.351	6.182	-1.006	1.00	0.00	C
ATOM	942	C	GLY A	68162.706	7.342	-0.275	1.00	0.00	C
ATOM	943	O	GLY A	68163.385	8.287	0.127	1.00	0.00	O
ATOM	944	H	GLY A	68162.055	4.667	-1.721	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.679	5.452	-0.281	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.210	6.546	-1.550	1.00	0.00	H
ATOM	947	N	THR A	69161.389	7.272	-0.102	1.00	0.00	N
ATOM	948	CA	THR A	69160.651	8.325	0.585	1.00	0.00	C
ATOM	949	C	THR A	69159.735	7.739	1.654	1.00	0.00	C
ATOM	950	O	THR A	69158.604	7.347	1.369	1.00	0.00	O
ATOM	951	CB	THR A	69159.829	9.137	-0.417	1.00	0.00	C

ATOM	952	OG1 THR A	69160.590	9.421	-1.578	1.00	0.00	O
ATOM	953	CG2 THR A	69159.336	10.454	0.141	1.00	0.00	C
ATOM	954	H THR A	69160.902	6.493	-0.445	1.00	0.00	H
ATOM	955	HA THR A	69161.368	8.976	1.061	1.00	0.00	H
ATOM	956	HB THR A	69158.965	8.558	-0.711	1.00	0.00	H
ATOM	957	HG1 THR A	69161.292	10.038	-1.358	1.00	0.00	H
ATOM	958	1HG2 THR A	69159.985	11.252	-0.190	1.00	0.00	H
ATOM	959	2HG2 THR A	69159.340	10.412	1.220	1.00	0.00	H
ATOM	960	3HG2 THR A	69158.331	10.639	-0.208	1.00	0.00	H
ATOM	961	N ARG A	70160.232	7.682	2.886	1.00	0.00	N
ATOM	962	CA ARG A	70159.457	7.143	3.998	1.00	0.00	C
ATOM	963	C ARG A	70158.310	8.077	4.365	1.00	0.00	C
ATOM	964	O ARG A	70158.529	9.234	4.725	1.00	0.00	O
ATOM	965	CB ARG A	70160.359	6.919	5.213	1.00	0.00	C
ATOM	966	CG ARG A	70159.662	6.210	6.364	1.00	0.00	C
ATOM	967	CD ARG A	70159.925	6.903	7.691	1.00	0.00	C
ATOM	968	NE ARG A	70159.851	5.977	8.819	1.00	0.00	N
ATOM	969	CZ ARG A	70160.254	6.275	10.051	1.00	0.00	C
ATOM	970	NH1 ARG A	70160.761	7.472	10.320	1.00	0.00	N
ATOM	971	NH2 ARG A	70160.151	5.374	11.018	1.00	0.00	N
ATOM	972	H ARG A	70161.141	8.009	3.050	1.00	0.00	H
ATOM	973	HA ARG A	70159.048	6.193	3.686	1.00	0.00	H
ATOM	974	1HB ARG A	70161.208	6.324	4.913	1.00	0.00	H
ATOM	975	2HB ARG A	70160.709	7.878	5.567	1.00	0.00	H
ATOM	976	1HG ARG A	70158.599	6.203	6.178	1.00	0.00	H
ATOM	977	2HG ARG A	70160.026	5.194	6.421	1.00	0.00	H
ATOM	978	1HD ARG A	70160.912	7.343	7.663	1.00	0.00	H

ATOM	979	2HD	ARG A	70159.189	7.682	7.827	1.00	0.00	H
ATOM	980	HE	ARG A	70159.482	5.085	8.647	1.00	0.00	H
ATOM	981	1HH1	ARG A	70160.841	8.157	9.595	1.00	0.00	H
ATOM	982	2HH1	ARG A	70161.062	7.690	11.248	1.00	0.00	H
ATOM	983	1HH2	ARG A	70159.771	4.470	10.820	1.00	0.00	H
ATOM	984	2HH2	ARG A	70160.454	5.598	11.945	1.00	0.00	H
ATOM	985	N	TYR A	71157.086	7.567	4.275	1.00	0.00	N
ATOM	986	CA	TYR A	71155.903	8.356	4.599	1.00	0.00	C
ATOM	987	C	TYR A	71155.381	8.004	5.988	1.00	0.00	C
ATOM	988	O	TYR A	71154.877	8.865	6.710	1.00	0.00	O
ATOM	989	CB	TYR A	71154.808	8.125	3.556	1.00	0.00	C
ATOM	990	CG	TYR A	71155.153	8.667	2.187	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.218	7.826	1.083	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.413	10.018	1.998	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.533	8.316	-0.170	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.727	10.517	0.748	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.786	9.662	-0.332	1.00	0.00	C
ATOM	996	OH	TYR A	71156.099	10.155	-1.578	1.00	0.00	O
ATOM	997	H	TYR A	71156.976	6.638	3.983	1.00	0.00	H
ATOM	998	HA	TYR A	71156.187	9.397	4.587	1.00	0.00	H
ATOM	999	1HB	TYR A	71154.633	7.064	3.458	1.00	0.00	H
ATOM	1000	2HB	TYR A	71153.901	8.607	3.886	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.019	6.773	1.213	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.367	10.685	2.846	1.00	0.00	H
ATOM	1003	HE1	TYR A	71155.578	7.646	-1.016	1.00	0.00	H
ATOM	1004	HE2	TYR A	71155.926	11.571	0.622	1.00	0.00	H
ATOM	1005	HH	TYR A	71155.373	9.983	-2.182	1.00	0.00	H

ATOM	1006	N	PHE A	72155.504	6.733	6.357	1.00	0.00	N
ATOM	1007	CA	PHE A	72155.045	6.266	7.659	1.00	0.00	C
ATOM	1008	C	PHE A	72156.020	5.251	8.248	1.00	0.00	C
ATOM	1009	O	PHE A	72157.052	4.949	7.649	1.00	0.00	O
ATOM	1010	CB	PHE A	72153.653	5.642	7.538	1.00	0.00	C
ATOM	1011	CG	PHE A	72153.543	4.631	6.433	1.00	0.00	C
ATOM	1012	CD1	PHE A	72153.294	5.033	5.130	1.00	0.00	C
ATOM	1013	CD2	PHE A	72153.689	3.278	6.696	1.00	0.00	C
ATOM	1014	CE1	PHE A	72153.193	4.104	4.111	1.00	0.00	C
ATOM	1015	CE2	PHE A	72153.588	2.345	5.682	1.00	0.00	C
ATOM	1016	CZ	PHE A	72153.340	2.759	4.388	1.00	0.00	C
ATOM	1017	H	PHE A	72155.914	6.094	5.737	1.00	0.00	H
ATOM	1018	HA	PHE A	72154.990	7.120	8.317	1.00	0.00	H
ATOM	1019	1HB	PHE A	72153.406	5.147	8.465	1.00	0.00	H
ATOM	1020	2HB	PHE A	72152.931	6.422	7.349	1.00	0.00	H
ATOM	1021	HD1	PHE A	72153.179	6.084	4.913	1.00	0.00	H
ATOM	1022	HD2	PHE A	72153.884	2.954	7.708	1.00	0.00	H
ATOM	1023	HE1	PHE A	72152.997	4.431	3.101	1.00	0.00	H
ATOM	1024	HE2	PHE A	72153.705	1.294	5.901	1.00	0.00	H
ATOM	1025	HZ	PHE A	72153.262	2.032	3.593	1.00	0.00	H
ATOM	1026	N	THR A	73155.687	4.731	9.424	1.00	0.00	N
ATOM	1027	CA	THR A	73156.534	3.750	10.094	1.00	0.00	C
ATOM	1028	C	THR A	73155.833	2.399	10.188	1.00	0.00	C
ATOM	1029	O	THR A	73154.813	2.263	10.862	1.00	0.00	O
ATOM	1030	CB	THR A	73156.909	4.241	11.493	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.700	3.278	12.167	1.00	0.00	O
ATOM	1032	CG2	THR A	73155.709	4.539	12.365	1.00	0.00	C

ATOM	1033	H	THR A	73154.851	5.012	9.852	1.00	0.00	H
ATOM	1034	HA	THR A	73157.434	3.636	9.510	1.00	0.00	H
ATOM	1035	HB	THR A	73157.486	5.150	11.401	1.00	0.00	H
ATOM	1036	HG1	THR A	73158.049	3.660	12.976	1.00	0.00	H
ATOM	1037	1HG2	THR A	73155.202	3.617	12.608	1.00	0.00	H
ATOM	1038	2HG2	THR A	73155.032	5.192	11.834	1.00	0.00	H
ATOM	1039	3HG2	THR A	73156.035	5.021	13.274	1.00	0.00	H
ATOM	1040	N	CYS A	74156.388	1.402	9.505	1.00	0.00	N
ATOM	1041	CA	CYS A	74155.816	0.060	9.512	1.00	0.00	C
ATOM	1042	C	CYS A	74156.913	-0.999	9.554	1.00	0.00	C
ATOM	1043	O	CYS A	74158.096	-0.687	9.422	1.00	0.00	O
ATOM	1044	CB	CYS A	74154.939	-0.148	8.276	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.237	0.427	8.475	1.00	0.00	S
ATOM	1046	H	CYS A	74157.201	1.572	8.985	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.205	-0.035	10.396	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.370	0.387	7.443	1.00	0.00	H
ATOM	1049	2HB	CYS A	74154.905	-1.202	8.042	1.00	0.00	H
ATOM	1050	HG	CYS A	74152.753	0.204	7.676	1.00	0.00	H
ATOM	1051	N	ALAA	75156.512	-2.252	9.739	1.00	0.00	N
ATOM	1052	CA	ALAA	75157.461	-3.357	9.799	1.00	0.00	C
ATOM	1053	C	ALAA	75158.197	-3.521	8.474	1.00	0.00	C
ATOM	1054	O	ALAA	75157.960	-2.774	7.524	1.00	0.00	O
ATOM	1055	CB	ALAA	75156.745	-4.647	10.170	1.00	0.00	C
ATOM	1056	H	ALAA	75155.554	-2.438	9.837	1.00	0.00	H
ATOM	1057	HA	ALAA	75158.180	-3.137	10.574	1.00	0.00	H
ATOM	1058	1HB	ALAA	75156.801	-4.796	11.238	1.00	0.00	H
ATOM	1059	2HB	ALAA	75157.215	-5.478	9.665	1.00	0.00	H

ATOM	1060	3HB	ALA A	75155.709	-4.583	9.869	1.00	0.00	H
ATOM	1061	N	LEU A	76159.091	-4.502	8.416	1.00	0.00	N
ATOM	1062	CA	LEU A	76159.862	-4.764	7.206	1.00	0.00	C
ATOM	1063	C	LEU A	76159.161	-5.793	6.326	1.00	0.00	C
ATOM	1064	O	LEU A	76158.560	-6.745	6.825	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.265	-5.256	7.566	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.272	-4.153	7.899	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.265	-4.636	8.945	1.00	0.00	C
ATOM	1068	CD2	LEU A	76162.999	-3.700	6.642	1.00	0.00	C
ATOM	1069	H	LEU A	76159.236	-5.064	9.206	1.00	0.00	H
ATOM	1070	HA	LEU A	76159.945	-3.836	6.659	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.185	-5.912	8.421	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.650	-5.823	6.733	1.00	0.00	H
ATOM	1073	HG	LEU A	76161.745	-3.304	8.307	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.124	-5.069	8.454	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76162.795	-5.380	9.572	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.582	-3.801	9.554	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76162.395	-3.926	5.775	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.945	-4.216	6.567	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76163.173	-2.636	6.690	1.00	0.00	H
ATOM	1080	N	LYS A	77159.241	-5.595	5.014	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.615	-6.506	4.063	1.00	0.00	C
ATOM	1082	C	LYS A	77157.102	-6.545	4.261	1.00	0.00	C
ATOM	1083	O	LYS A	77156.473	-7.591	4.107	1.00	0.00	O
ATOM	1084	CB	LYS A	77159.196	-7.914	4.213	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.695	-7.980	3.971	1.00	0.00	C
ATOM	1086	CD	LYS A	77161.038	-7.712	2.515	1.00	0.00	C

ATOM	1087	CE	LYS A	77162.514	-7.398	2.339	1.00	0.00	C
ATOM	1088	NZ	LYS A	77163.360	-8.619	2.449	1.00	0.00	N
ATOM	1089	H	LYS A	77159.734	-4.817	4.677	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.826	-6.143	3.069	1.00	0.00	H
ATOM	1091	1HB	LYS A	77158.998	-8.268	5.213	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.709	-8.569	3.505	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.183	-7.239	4.587	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.050	-8.965	4.240	1.00	0.00	H
ATOM	1095	1HD	LYS A	77160.794	-8.586	1.931	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.456	-6.871	2.167	1.00	0.00	H
ATOM	1097	1HE	LYS A	77162.662	-6.956	1.364	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.813	-6.693	3.101	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77162.813	-9.459	2.167	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.682	-8.743	3.430	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77164.191	-8.536	1.831	1.00	0.00	H
ATOM	1102	N	LYS A	78156.526	-5.398	4.602	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.087	-5.300	4.821	1.00	0.00	C
ATOM	1104	C	LYS A	78154.565	-3.928	4.407	1.00	0.00	C
ATOM	1105	O	LYS A	78153.672	-3.373	5.047	1.00	0.00	O
ATOM	1106	CB	LYS A	78154.754	-5.564	6.291	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.276	-6.897	6.803	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.037	-7.051	8.296	1.00	0.00	C
ATOM	1109	CE	LYS A	78153.738	-7.786	8.580	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.489	-7.930	10.040	1.00	0.00	N
ATOM	1111	H	LYS A	78157.081	-4.597	4.709	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.609	-6.053	4.212	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.187	-4.778	6.892	1.00	0.00	H

ATOM	1114	2HB	LYS A	78153.682	-5.551	6.413	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.768	-7.695	6.283	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.337	-6.956	6.609	1.00	0.00	H
ATOM	1117	1HD	LYS A	78155.857	-7.608	8.726	1.00	0.00	H
ATOM	1118	2HD	LYS A	78154.992	-6.070	8.746	1.00	0.00	H
ATOM	1119	1HE	LYS A	78152.923	-7.233	8.138	1.00	0.00	H
ATOM	1120	2HE	LYS A	78153.790	-8.768	8.132	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.472	-7.847	10.240	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.995	-7.189	10.566	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78153.820	-8.860	10.369	1.00	0.00	H
ATOM	1124	N	ALA A	79155.130	-3.385	3.333	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.722	-2.078	2.834	1.00	0.00	C
ATOM	1126	C	ALA A	79154.661	-2.066	1.311	1.00	0.00	C
ATOM	1127	O	ALA A	79155.692	-2.045	0.638	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.673	-1.002	3.334	1.00	0.00	C
ATOM	1129	H	ALA A	79155.838	-3.876	2.865	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.737	-1.864	3.225	1.00	0.00	H
ATOM	1131	1HB	ALA A	79156.179	-1.352	4.222	1.00	0.00	H
ATOM	1132	2HB	ALA A	79155.115	-0.107	3.567	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.402	-0.782	2.568	1.00	0.00	H
ATOM	1134	N	LEU A	80153.445	-2.077	0.772	1.00	0.00	N
ATOM	1135	CA	LEU A	80153.250	-2.068	-0.674	1.00	0.00	C
ATOM	1136	C	LEU A	80152.372	-0.893	-1.095	1.00	0.00	C
ATOM	1137	O	LEU A	80151.191	-0.835	-0.752	1.00	0.00	O
ATOM	1138	CB	LEU A	80152.617	-3.383	-1.131	1.00	0.00	C
ATOM	1139	CG	LEU A	80152.301	-3.464	-2.626	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.582	-3.431	-3.445	1.00	0.00	C

ATOM	1141	CD2	LEU A	80151.501	-4.721	-2.933	1.00	0.00	C
ATOM	1142	H	LEU A	80152.662	-2.093	1.360	1.00	0.00	H
ATOM	1143	HA	LEU A	80154.218	-1.962	-1.139	1.00	0.00	H
ATOM	1144	1HB	LEU A	80153.294	-4.189	-0.883	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.698	-3.526	-0.585	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.704	-2.608	-2.907	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.460	-4.038	-4.330	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80154.399	-3.819	-2.852	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.799	-2.413	-3.734	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80151.751	-5.074	-3.924	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80150.446	-4.496	-2.887	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80151.739	-5.485	-2.209	1.00	0.00	H
ATOM	1153	N	PHE A	81152.956	0.039	-1.839	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.227	1.212	-2.307	1.00	0.00	C
ATOM	1155	C	PHE A	81151.468	0.904	-3.594	1.00	0.00	C
ATOM	1156	O	PHE A	81151.964	0.183	-4.460	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.188	2.379	-2.536	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.792	2.916	-1.270	1.00	0.00	C
ATOM	1159	CD1	PHE A	81154.989	2.410	-0.788	1.00	0.00	C
ATOM	1160	CD2	PHE A	81153.164	3.928	-0.561	1.00	0.00	C
ATOM	1161	CE1	PHE A	81155.547	2.902	0.377	1.00	0.00	C
ATOM	1162	CE2	PHE A	81153.717	4.425	0.603	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.910	3.911	1.073	1.00	0.00	C
ATOM	1164	H	PHE A	81153.900	-0.064	-2.079	1.00	0.00	H
ATOM	1165	HA	PHE A	81151.516	1.487	-1.543	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.995	2.052	-3.175	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.657	3.185	-3.020	1.00	0.00	H

ATOM	1168	HD1 PHE A	81155.488	1.622	-1.332	1.00	0.00	H
ATOM	1169	HD2 PHE A	81152.231	4.330	-0.928	1.00	0.00	H
ATOM	1170	HE1 PHE A	81156.480	2.499	0.742	1.00	0.00	H
ATOM	1171	HE2 PHE A	81153.216	5.213	1.146	1.00	0.00	H
ATOM	1172	HZ PHE A	81155.344	4.297	1.983	1.00	0.00	H
ATOM	1173	N VAL A	82150.265	1.454	-3.713	1.00	0.00	N
ATOM	1174	CA VAL A	82149.439	1.238	-4.894	1.00	0.00	C
ATOM	1175	C VAL A	82148.475	2.400	-5.112	1.00	0.00	C
ATOM	1176	O VAL A	82148.288	3.238	-4.230	1.00	0.00	O
ATOM	1177	CB VAL A	82148.632	-0.069	-4.784	1.00	0.00	C
ATOM	1178	CG1 VAL A	82149.555	-1.276	-4.862	1.00	0.00	C
ATOM	1179	CG2 VAL A	82147.821	-0.090	-3.498	1.00	0.00	C
ATOM	1180	H VAL A	82149.925	2.020	-2.988	1.00	0.00	H
ATOM	1181	HA VAL A	82150.095	1.161	-5.750	1.00	0.00	H
ATOM	1182	HB VAL A	82147.946	-0.116	-5.618	1.00	0.00	H
ATOM	1183	1HG1 VAL A	82150.262	-1.240	-4.048	1.00	0.00	H
ATOM	1184	2HG1 VAL A	82150.086	-1.262	-5.802	1.00	0.00	H
ATOM	1185	3HG1 VAL A	82148.970	-2.181	-4.792	1.00	0.00	H
ATOM	1186	1HG2 VAL A	82147.469	0.907	-3.279	1.00	0.00	H
ATOM	1187	2HG2 VAL A	82148.442	-0.439	-2.686	1.00	0.00	H
ATOM	1188	3HG2 VAL A	82146.976	-0.752	-3.616	1.00	0.00	H
ATOM	1189	N LYS A	83147.867	2.443	-6.292	1.00	0.00	N
ATOM	1190	CA LYS A	83146.922	3.502	-6.627	1.00	0.00	C
ATOM	1191	C LYS A	83145.691	3.437	-5.732	1.00	0.00	C
ATOM	1192	O LYS A	83145.092	2.376	-5.556	1.00	0.00	O
ATOM	1193	CB LYS A	83146.505	3.398	-8.096	1.00	0.00	C
ATOM	1194	CG LYS A	83147.637	3.674	-9.071	1.00	0.00	C

ATOM	1195	CD	LYS A	83147.323	3.133	-10.456	1.00	0.00	C
ATOM	1196	CE	LYS A	83148.071	3.897	-11.536	1.00	0.00	C
ATOM	1197	NZ	LYS A	83149.309	3.187	-11.962	1.00	0.00	N
ATOM	1198	H	LYS A	83148.058	1.747	-6.955	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.415	4.449	-6.470	1.00	0.00	H
ATOM	1200	1HB	LYS A	83146.134	2.401	-8.281	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.714	4.108	-8.285	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.789	4.740	-9.138	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.538	3.203	-8.705	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.611	2.093	-10.500	1.00	0.00	H
ATOM	1205	2HD	LYS A	83146.261	3.221	-10.634	1.00	0.00	H
ATOM	1206	1HE	LYS A	83147.422	4.015	-12.391	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.339	4.871	-11.150	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83149.120	2.620	-12.814	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83149.638	2.556	-11.205	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83150.060	3.875	-12.176	1.00	0.00	H
ATOM	1211	N	LEU A	84145.318	4.580	-5.169	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.158	4.661	-4.291	1.00	0.00	C
ATOM	1213	C	LEU A	84142.865	4.491	-5.082	1.00	0.00	C
ATOM	1214	O	LEU A	84141.879	3.961	-4.572	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.151	6.002	-3.554	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.910	6.266	-2.698	1.00	0.00	C
ATOM	1217	CD1	LEU A	84142.912	5.375	-1.467	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.843	7.733	-2.298	1.00	0.00	C
ATOM	1219	H	LEU A	84145.837	5.392	-5.350	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.233	3.863	-3.568	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.020	6.041	-2.914	1.00	0.00	H

ATOM	1222	2HB	LEU A	84144.229	6.791	-4.287	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.027	6.036	-3.275	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84143.333	4.414	-1.719	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84141.899	5.244	-1.115	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.505	5.835	-0.689	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.606	8.332	-3.164	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.798	8.040	-1.898	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84142.078	7.866	-1.547	1.00	0.00	H
ATOM	1230	N	LYS A	85142.879	4.942	-6.332	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.709	4.839	-7.195	1.00	0.00	C
ATOM	1232	C	LYS A	85141.357	3.378	-7.464	1.00	0.00	C
ATOM	1233	O	LYS A	85140.198	3.045	-7.713	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.956	5.567	-8.517	1.00	0.00	C
ATOM	1235	CG	LYS A	85143.160	5.042	-9.284	1.00	0.00	C
ATOM	1236	CD	LYS A	85144.320	6.026	-9.247	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.051	7.236	-10.128	1.00	0.00	C
ATOM	1238	NZ	LYS A	85144.712	7.112	-11.457	1.00	0.00	N
ATOM	1239	H	LYS A	85143.696	5.354	-6.683	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.880	5.308	-6.686	1.00	0.00	H
ATOM	1241	1HB	LYS A	85141.083	5.459	-9.143	1.00	0.00	H
ATOM	1242	2HB	LYS A	85142.114	6.616	-8.313	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.479	4.111	-8.842	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.875	4.876	-10.312	1.00	0.00	H
ATOM	1245	1HD	LYS A	85144.464	6.360	-8.231	1.00	0.00	H
ATOM	1246	2HD	LYS A	85145.212	5.528	-9.596	1.00	0.00	H
ATOM	1247	1HE	LYS A	85142.985	7.331	-10.273	1.00	0.00	H
ATOM	1248	2HE	LYS A	85144.426	8.119	-9.630	1.00	0.00	H

ATOM	1249	1HZ	LYS A	85145.717	6.869	-11.335	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.645	8.011	-11.975	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.251	6.367	-12.017	1.00	0.00	H
ATOM	1252	N	SER A	86142.363	2.511	-7.412	1.00	0.00	N
ATOM	1253	CA	SER A	86142.158	1.087	-7.651	1.00	0.00	C
ATOM	1254	C	SER A	86142.188	0.306	-6.341	1.00	0.00	C
ATOM	1255	O	SER A	86142.608	-0.850	-6.306	1.00	0.00	O
ATOM	1256	CB	SER A	86143.227	0.549	-8.603	1.00	0.00	C
ATOM	1257	OG	SER A	86143.165	1.200	-9.861	1.00	0.00	O
ATOM	1258	H	SER A	86143.265	2.837	-7.209	1.00	0.00	H
ATOM	1259	HA	SER A	86141.187	0.965	-8.107	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.204	0.714	-8.176	1.00	0.00	H
ATOM	1261	2HB	SER A	86143.073	-0.510	-8.752	1.00	0.00	H
ATOM	1262	HG	SER A	86142.249	1.269	-10.141	1.00	0.00	H
ATOM	1263	N	CYS A	87141.740	0.946	-5.266	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.714	0.312	-3.953	1.00	0.00	C
ATOM	1265	C	CYS A	87140.288	-0.056	-3.555	1.00	0.00	C
ATOM	1266	O	CYS A	87139.363	0.738	-3.721	1.00	0.00	O
ATOM	1267	CB	CYS A	87142.326	1.241	-2.903	1.00	0.00	C
ATOM	1268	SG	CYS A	87144.133	1.202	-2.848	1.00	0.00	S
ATOM	1269	H	CYS A	87141.417	1.868	-5.358	1.00	0.00	H
ATOM	1270	HA	CYS A	87142.303	-0.591	-4.011	1.00	0.00	H
ATOM	1271	1HB	CYS A	87142.027	2.256	-3.113	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.961	0.958	-1.927	1.00	0.00	H
ATOM	1273	HG	CYS A	87144.438	0.603	-3.533	1.00	0.00	H
ATOM	1274	N	ARG A	88140.119	-1.265	-3.030	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.806	-1.737	-2.610	1.00	0.00	C

ATOM	1276	C	ARG A	88138.683	-1.722	-1.085	1.00	0.00	C
ATOM	1277	O	ARG A	88139.522	-2.287	-0.385	1.00	0.00	O
ATOM	1278	CB	ARG A	88138.558	-3.152	-3.140	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.514	-3.212	-4.244	1.00	0.00	C
ATOM	1280	CD	ARG A	88136.107	-3.286	-3.675	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.160	-3.860	-4.628	1.00	0.00	N
ATOM	1282	CZ	ARG A	88133.845	-3.915	-4.425	1.00	0.00	C
ATOM	1283	NH1	ARG A	88133.319	-3.434	-3.305	1.00	0.00	N
ATOM	1284	NH2	ARG A	88133.055	-4.454	-5.343	1.00	0.00	N
ATOM	1285	H	ARG A	88140.895	-1.853	-2.924	1.00	0.00	H
ATOM	1286	HA	ARG A	88138.067	-1.072	-3.029	1.00	0.00	H
ATOM	1287	1HB	ARG A	88139.485	-3.544	-3.530	1.00	0.00	H
ATOM	1288	2HB	ARG A	88138.226	-3.779	-2.326	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.598	-2.327	-4.856	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.695	-4.089	-4.849	1.00	0.00	H
ATOM	1291	1HD	ARG A	88136.123	-3.898	-2.786	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.784	-2.288	-3.417	1.00	0.00	H
ATOM	1293	HE	ARG A	88135.522	-4.222	-5.463	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88133.909	-3.027	-2.609	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88132.330	-3.480	-3.158	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.446	-4.818	-6.189	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88132.067	-4.496	-5.191	1.00	0.00	H
ATOM	1298	N	PRO A	89137.633	-1.072	-0.548	1.00	0.00	N
ATOM	1299	CA	PRO A	89137.417	-0.994	0.901	1.00	0.00	C
ATOM	1300	C	PRO A	89137.404	-2.369	1.559	1.00	0.00	C
ATOM	1301	O	PRO A	89136.670	-3.264	1.136	1.00	0.00	O
ATOM	1302	CB	PRO A	89136.041	-0.332	1.024	1.00	0.00	C

ATOM	1303	CG	PRO A	89135.870	0.429	-0.245	1.00	0.00	C
ATOM	1304	CD	PRO A	89136.580	-0.368	-1.303	1.00	0.00	C
ATOM	1305	HA	PRO A	89138.161	-0.375	1.379	1.00	0.00	H
ATOM	1306	1HB	PRO A	89135.282	-1.091	1.136	1.00	0.00	H
ATOM	1307	2HB	PRO A	89136.031	0.326	1.881	1.00	0.00	H
ATOM	1308	1HG	PRO A	89134.819	0.515	-0.482	1.00	0.00	H
ATOM	1309	2HG	PRO A	89136.316	1.408	-0.150	1.00	0.00	H
ATOM	1310	1HD	PRO A	89135.902	-1.070	-1.765	1.00	0.00	H
ATOM	1311	2HD	PRO A	89137.011	0.289	-2.044	1.00	0.00	H
ATOM	1312	N	ASP A	90138.220	-2.533	2.594	1.00	0.00	N
ATOM	1313	CA	ASP A	90138.302	-3.801	3.309	1.00	0.00	C
ATOM	1314	C	ASP A	90137.533	-3.735	4.624	1.00	0.00	C
ATOM	1315	O	ASP A	90138.011	-3.166	5.606	1.00	0.00	O
ATOM	1316	CB	ASP A	90139.763	-4.165	3.578	1.00	0.00	C
ATOM	1317	CG	ASP A	90139.987	-5.664	3.624	1.00	0.00	C
ATOM	1318	OD1	ASP A	90140.017	-6.226	4.739	1.00	0.00	O
ATOM	1319	OD2	ASP A	90140.130	-6.275	2.544	1.00	0.00	O
ATOM	1320	H	ASP A	90138.781	-1.783	2.885	1.00	0.00	H
ATOM	1321	HA	ASP A	90137.860	-4.562	2.685	1.00	0.00	H
ATOM	1322	1HB	ASP A	90140.381	-3.751	2.796	1.00	0.00	H
ATOM	1323	2HB	ASP A	90140.063	-3.746	4.527	1.00	0.00	H
ATOM	1324	N	SER A	91136.339	-4.319	4.637	1.00	0.00	N
ATOM	1325	CA	SER A	91135.506	-4.326	5.834	1.00	0.00	C
ATOM	1326	C	SER A	91135.639	-5.649	6.582	1.00	0.00	C
ATOM	1327	O	SER A	91134.700	-6.099	7.237	1.00	0.00	O
ATOM	1328	CB	SER A	91134.042	-4.084	5.463	1.00	0.00	C
ATOM	1329	OG	SER A	91133.352	-3.424	6.510	1.00	0.00	O

ATOM	1330	H	SER A	91136.012	-4.757	3.824	1.00	0.00	H
ATOM	1331	HA	SER A	91135.842	-3.527	6.476	1.00	0.00	H
ATOM	1332	1HB	SER A	91133.994	-3.472	4.575	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.560	-5.032	5.272	1.00	0.00	H
ATOM	1334	HG	SER A	91133.254	-4.021	7.255	1.00	0.00	H
ATOM	1335	N	ARG A	92136.812	-6.266	6.479	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.067	-7.537	7.147	1.00	0.00	C
ATOM	1337	C	ARG A	92137.066	-7.367	8.663	1.00	0.00	C
ATOM	1338	O	ARG A	92136.736	-8.295	9.401	1.00	0.00	O
ATOM	1339	CB	ARG A	92138.406	-8.118	6.689	1.00	0.00	C
ATOM	1340	CG	ARG A	92138.307	-8.944	5.417	1.00	0.00	C
ATOM	1341	CD	ARG A	92137.309	-10.081	5.568	1.00	0.00	C
ATOM	1342	NE	ARG A	92136.010	-9.750	4.987	1.00	0.00	N
ATOM	1343	CZ	ARG A	92134.911	-10.481	5.164	1.00	0.00	C
ATOM	1344	NH1	ARG A	92134.949	-11.582	5.903	1.00	0.00	N
ATOM	1345	NH2	ARG A	92133.771	-10.109	4.598	1.00	0.00	N
ATOM	1346	H	ARG A	92137.522	-5.857	5.942	1.00	0.00	H
ATOM	1347	HA	ARG A	92136.276	-8.219	6.873	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.095	-7.305	6.511	1.00	0.00	H
ATOM	1349	2HB	ARG A	92138.800	-8.748	7.472	1.00	0.00	H
ATOM	1350	1HG	ARG A	92137.988	-8.305	4.607	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.279	-9.357	5.191	1.00	0.00	H
ATOM	1352	1HD	ARG A	92137.701	-10.956	5.072	1.00	0.00	H
ATOM	1353	2HD	ARG A	92137.180	-10.293	6.619	1.00	0.00	H
ATOM	1354	HE	ARG A	92135.953	-8.941	4.437	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92135.807	-11.868	6.332	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92134.121	-12.127	6.032	1.00	0.00	H

ATOM	1357	1HH2	ARG A	92133.736	-9.280	4.040	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92132.945	-10.658	4.730	1.00	0.00	H
ATOM	1359	N	PHE A	93137.439	-6.176	9.122	1.00	0.00	N
ATOM	1360	CA	PHE A	93137.481	-5.887	10.550	1.00	0.00	C
ATOM	1361	C	PHE A	93136.780	-4.569	10.863	1.00	0.00	C
ATOM	1362	O	PHE A	93137.137	-3.875	11.815	1.00	0.00	O
ATOM	1363	CB	PHE A	93138.930	-5.835	11.037	1.00	0.00	C
ATOM	1364	CG	PHE A	93139.691	-7.106	10.797	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.083	-7.907	11.858	1.00	0.00	C
ATOM	1366	CD2	PHE A	93140.013	-7.503	9.508	1.00	0.00	C
ATOM	1367	CE1	PHE A	93140.783	-9.078	11.639	1.00	0.00	C
ATOM	1368	CE2	PHE A	93140.713	-8.673	9.283	1.00	0.00	C
ATOM	1369	CZ	PHE A	93141.098	-9.462	10.350	1.00	0.00	C
ATOM	1370	H	PHE A	93137.693	-5.476	8.484	1.00	0.00	H
ATOM	1371	HA	PHE A	93136.968	-6.685	11.065	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.446	-5.036	10.524	1.00	0.00	H
ATOM	1373	2HB	PHE A	93138.938	-5.637	12.100	1.00	0.00	H
ATOM	1374	HD1	PHE A	93139.836	-7.607	12.866	1.00	0.00	H
ATOM	1375	HD2	PHE A	93139.713	-6.887	8.674	1.00	0.00	H
ATOM	1376	HE1	PHE A	93141.083	-9.693	12.475	1.00	0.00	H
ATOM	1377	HE2	PHE A	93140.959	-8.971	8.275	1.00	0.00	H
ATOM	1378	HZ	PHE A	93141.645	-10.376	10.176	1.00	0.00	H
ATOM	1379	N	ALA A	94135.778	-4.230	10.057	1.00	0.00	N
ATOM	1380	CA	ALA A	94135.027	-2.996	10.252	1.00	0.00	C
ATOM	1381	C	ALA A	94133.691	-3.270	10.933	1.00	0.00	C
ATOM	1382	O	ALA A	94132.872	-4.038	10.431	1.00	0.00	O
ATOM	1383	CB	ALA A	94134.809	-2.296	8.918	1.00	0.00	C

ATOM	1384	H	ALA A	94135.538	-4.825	9.315	1.00	0.00	H
ATOM	1385	HA	ALA A	94135.614	-2.345	10.882	1.00	0.00	H
ATOM	1386	1HB	ALA A	94134.850	-3.021	8.120	1.00	0.00	H
ATOM	1387	2HB	ALA A	94135.580	-1.554	8.772	1.00	0.00	H
ATOM	1388	3HB	ALA A	94133.842	-1.815	8.918	1.00	0.00	H
ATOM	1389	N	SER A	95133.478	-2.635	12.081	1.00	0.00	N
ATOM	1390	CA	SER A	95132.240	-2.810	12.832	1.00	0.00	C
ATOM	1391	C	SER A	95131.059	-2.200	12.085	1.00	0.00	C
ATOM	1392	O	SER A	95131.135	-1.074	11.594	1.00	0.00	O
ATOM	1393	CB	SER A	95132.365	-2.173	14.217	1.00	0.00	C
ATOM	1394	OG	SER A	95131.405	-2.708	15.114	1.00	0.00	O
ATOM	1395	H	SER A	95134.169	-2.034	12.431	1.00	0.00	H
ATOM	1396	HA	SER A	95132.070	-3.870	12.947	1.00	0.00	H
ATOM	1397	1HB	SER A	95133.352	-2.365	14.611	1.00	0.00	H
ATOM	1398	2HB	SER A	95132.210	-1.108	14.137	1.00	0.00	H
ATOM	1399	HG	SER A	95130.544	-2.721	14.690	1.00	0.00	H
ATOM	1400	N	LEU A	96129.965	-2.952	12.003	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.767	-2.486	11.316	1.00	0.00	C
ATOM	1402	C	LEU A	96127.508	-2.961	12.035	1.00	0.00	C
ATOM	1403	O	LEU A	96127.307	-4.159	12.230	1.00	0.00	O
ATOM	1404	CB	LEU A	96128.759	-2.981	9.868	1.00	0.00	C
ATOM	1405	CG	LEU A	96129.541	-2.112	8.882	1.00	0.00	C
ATOM	1406	CD1	LEU A	96129.667	-2.811	7.537	1.00	0.00	C
ATOM	1407	CD2	LEU A	96128.869	-0.757	8.719	1.00	0.00	C
ATOM	1408	H	LEU A	96129.965	-3.841	12.415	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.783	-1.407	11.317	1.00	0.00	H
ATOM	1410	1HB	LEU A	96129.176	-3.978	9.849	1.00	0.00	H

ATOM	1411	2HB	LEU A	96127.733	-3.033	9.534	1.00	0.00	H
ATOM	1412	HG	LEU A	96130.537	-1.949	9.267	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96128.875	-2.478	6.882	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96129.590	-3.880	7.679	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96130.623	-2.574	7.096	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96128.830	-0.257	9.676	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96127.866	-0.895	8.344	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96129.435	-0.156	8.022	1.00	0.00	H
ATOM	1419	N	GLN A	97126.665	-2.011	12.428	1.00	0.00	N
ATOM	1420	CA	GLN A	97125.425	-2.332	13.127	1.00	0.00	C
ATOM	1421	C	GLN A	97124.243	-2.354	12.156	1.00	0.00	C
ATOM	1422	O	GLN A	97123.755	-1.304	11.739	1.00	0.00	O
ATOM	1423	CB	GLN A	97125.167	-1.315	14.240	1.00	0.00	C
ATOM	1424	CG	GLN A	97125.424	-1.863	15.634	1.00	0.00	C
ATOM	1425	CD	GLN A	97124.146	-2.256	16.350	1.00	0.00	C
ATOM	1426	OE1	GLN A	97123.962	-1.951	17.528	1.00	0.00	O
ATOM	1427	NE2	GLN A	97123.255	-2.938	15.639	1.00	0.00	N
ATOM	1428	H	GLN A	97126.881	-1.073	12.244	1.00	0.00	H
ATOM	1429	HA	GLN A	97125.537	-3.311	13.565	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.810	-0.461	14.089	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.138	-0.993	14.187	1.00	0.00	H
ATOM	1432	1HG	GLN A	97126.055	-2.735	15.554	1.00	0.00	H
ATOM	1433	2HG	GLN A	97125.928	-1.107	16.218	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97123.470	-3.146	14.705	1.00	0.00	H
ATOM	1435	2HE2	GLN A	97122.420	-3.205	16.076	1.00	0.00	H
ATOM	1436	N	PRO A	98123.766	-3.555	11.782	1.00	0.00	N
ATOM	1437	CA	PRO A	98122.638	-3.700	10.858	1.00	0.00	C

ATOM	1438	C	PRO A	98121.303	-3.372	11.518	1.00	0.00	C
ATOM	1439	O	PRO A	98121.041	-3.783	12.649	1.00	0.00	O
ATOM	1440	CB	PRO A	98122.694	-5.176	10.467	1.00	0.00	C
ATOM	1441	CG	PRO A	98123.315	-5.851	11.641	1.00	0.00	C
ATOM	1442	CD	PRO A	98124.286	-4.863	12.229	1.00	0.00	C
ATOM	1443	HA	PRO A	98122.765	-3.085	9.979	1.00	0.00	H
ATOM	1444	1HB	PRO A	98121.694	-5.541	10.282	1.00	0.00	H
ATOM	1445	2HB	PRO A	98123.298	-5.295	9.581	1.00	0.00	H
ATOM	1446	1HG	PRO A	98122.553	-6.103	12.364	1.00	0.00	H
ATOM	1447	2HG	PRO A	98123.834	-6.741	11.320	1.00	0.00	H
ATOM	1448	1HD	PRO A	98124.284	-4.928	13.307	1.00	0.00	H
ATOM	1449	2HD	PRO A	98125.279	-5.033	11.841	1.00	0.00	H
ATOM	1450	N	SER A	99120.462	-2.631	10.804	1.00	0.00	N
ATOM	1451	CA	SER A	99119.153	-2.249	11.322	1.00	0.00	C
ATOM	1452	C	SER A	99118.076	-3.219	10.847	1.00	0.00	C
ATOM	1453	O	SER A	99117.225	-3.649	11.627	1.00	0.00	O
ATOM	1454	CB	SER A	99118.803	-0.826	10.882	1.00	0.00	C
ATOM	1455	OG	SER A	99117.906	-0.216	11.794	1.00	0.00	O
ATOM	1456	H	SER A	99120.727	-2.335	9.909	1.00	0.00	H
ATOM	1457	HA	SER A	99119.200	-2.282	12.399	1.00	0.00	H
ATOM	1458	1HB	SER A	99119.705	-0.235	10.834	1.00	0.00	H
ATOM	1459	2HB	SER A	99118.341	-0.857	9.907	1.00	0.00	H
ATOM	1460	HG	SER A	99117.119	0.070	11.326	1.00	0.00	H
ATOM	1461	N	GLY A	100118.117	-3.561	9.563	1.00	0.00	N
ATOM	1462	CA	GLY A	100117.140	-4.477	9.006	1.00	0.00	C
ATOM	1463	C	GLY A	100117.762	-5.478	8.050	1.00	0.00	C
ATOM	1464	O	GLY A	100118.930	-5.840	8.200	1.00	0.00	O

ATOM	1465	H	GLY A 1001	18.819	-3.187	8.988	1.00	0.00	H
ATOM	1466	1HA	GLY A 1001	16.667	-5.015	9.815	1.00	0.00	H
ATOM	1467	2HA	GLY A 1001	16.390	-3.909	8.478	1.00	0.00	H
ATOM	1468	N	PRO A 1011	17.001	-5.947	7.047	1.00	0.00	N
ATOM	1469	CA	PRO A 1011	17.498	-6.916	6.065	1.00	0.00	C
ATOM	1470	C	PRO A 1011	18.546	-6.311	5.135	1.00	0.00	C
ATOM	1471	O	PRO A 1011	19.493	-6.984	4.730	1.00	0.00	O
ATOM	1472	CB	PRO A 1011	16.244	-7.303	5.277	1.00	0.00	C
ATOM	1473	CG	PRO A 1011	15.329	-6.138	5.425	1.00	0.00	C
ATOM	1474	CD	PRO A 1011	15.598	-5.570	6.791	1.00	0.00	C
ATOM	1475	HA	PRO A 1011	17.909	-7.791	6.546	1.00	0.00	H
ATOM	1476	1HB	PRO A 1011	16.503	-7.474	4.243	1.00	0.00	H
ATOM	1477	2HB	PRO A 1011	15.813	-8.199	5.699	1.00	0.00	H
ATOM	1478	1HG	PRO A 1011	15.545	-5.402	4.664	1.00	0.00	H
ATOM	1479	2HG	PRO A 1011	14.302	-6.465	5.351	1.00	0.00	H
ATOM	1480	1HD	PRO A 1011	15.482	-4.497	6.784	1.00	0.00	H
ATOM	1481	2HD	PRO A 1011	14.940	-6.018	7.522	1.00	0.00	H
ATOM	1482	N	SER A 1021	18.367	-5.037	4.801	1.00	0.00	N
ATOM	1483	CA	SER A 1021	19.297	-4.341	3.919	1.00	0.00	C
ATOM	1484	C	SER A 1021	18.912	-2.873	3.773	1.00	0.00	C
ATOM	1485	O	SER A 1021	19.748	-1.983	3.931	1.00	0.00	O
ATOM	1486	CB	SER A 1021	19.328	-5.012	2.544	1.00	0.00	C
ATOM	1487	OG	SER A 1021	18.028	-5.404	2.138	1.00	0.00	O
ATOM	1488	H	SER A 1021	17.592	-4.554	5.156	1.00	0.00	H
ATOM	1489	HA	SER A 1021	20.281	-4.401	4.361	1.00	0.00	H
ATOM	1490	1HB	SER A 1021	19.724	-4.319	1.817	1.00	0.00	H
ATOM	1491	2HB	SER A 1021	19.958	-5.888	2.587	1.00	0.00	H

ATOM	1492	HG	SER A	102117.584	-4.662	1.720	1.00	0.00	H
ATOM	1493	N	SER A	103117.641	-2.626	3.472	1.00	0.00	N
ATOM	1494	CA	SER A	103117.145	-1.265	3.305	1.00	0.00	C
ATOM	1495	C	SER A	103115.622	-1.246	3.240	1.00	0.00	C
ATOM	1496	O	SER A	103114.978	-2.295	3.195	1.00	0.00	O
ATOM	1497	CB	SER A	103117.729	-0.639	2.037	1.00	0.00	C
ATOM	1498	OG	SER A	103118.925	0.066	2.321	1.00	0.00	O
ATOM	1499	H	SER A	103117.022	-3.378	3.359	1.00	0.00	H
ATOM	1500	HA	SER A	103117.465	-0.689	4.160	1.00	0.00	H
ATOM	1501	1HB	SER A	103117.946	-1.417	1.321	1.00	0.00	H
ATOM	1502	2HB	SER A	103117.011	0.048	1.615	1.00	0.00	H
ATOM	1503	HG	SER A	103119.621	-0.234	1.732	1.00	0.00	H
ATOM	1504	N	GLY A	104115.049	-0.046	3.236	1.00	0.00	N
ATOM	1505	CA	GLY A	104113.605	0.086	3.176	1.00	0.00	C
ATOM	1506	C	GLY A	104113.168	1.467	2.728	1.00	0.00	C
ATOM	1507	O	GLY A	104112.708	2.251	3.585	1.00	0.00	O
ATOM	1508	OXT	GLY A	104113.285	1.764	1.521	1.00	0.00	O
ATOM	1509	H	GLY A	104115.612	0.755	3.273	1.00	0.00	H
ATOM	1510	1HA	GLY A	104113.216	-0.645	2.484	1.00	0.00	H
ATOM	1511	2HA	GLY A	104113.196	-0.108	4.157	1.00	0.00	H
TER	1512	GLY A	104						
ENDMDL									

Three-Dimensional Structure Coordinate Table 9

ATOM 1	N	GLY A	1127.996	-5.495	4.967	1.00	0.00	N
ATOM 2	CA	GLY A	1127.436	-4.222	5.499	1.00	0.00	C
ATOM 3	C	GLY A	1127.407	-3.121	4.459	1.00	0.00	C

ATOM 4	O	GLY A	1126.530	-2.258	4.483	1.00	0.00	O
ATOM 5 1H		GLY A	1129.036	-5.459	4.975	1.00	0.00	H
ATOM 6 2H		GLY A	1127.674	-5.646	3.989	1.00	0.00	H
ATOM 7 3H		GLY A	1127.683	-6.296	5.551	1.00	0.00	H
ATOM 8 1HA		GLY A	1126.428	-4.402	5.845	1.00	0.00	H
ATOM 9 2HA		GLY A	1128.040	-3.898	6.334	1.00	0.00	H
ATOM10	N	SER A	2128.369	-3.150	3.543	1.00	0.00	N
ATOM11	CA	SER A	2128.452	-2.145	2.488	1.00	0.00	C
ATOM12	C	SER A	2127.262	-2.254	1.539	1.00	0.00	C
ATOM13	O	SER A	2126.460	-1.327	1.425	1.00	0.00	O
ATOM14	CB	SER A	2129.758	-2.301	1.707	1.00	0.00	C
ATOM15	OG	SER A	2130.194	-3.649	1.704	1.00	0.00	O
ATOM16	H	SER A	2129.040	-3.863	3.576	1.00	0.00	H
ATOM17	HA	SER A	2128.436	-1.172	2.956	1.00	0.00	H
ATOM18 1HB		SER A	2129.604	-1.984	0.686	1.00	0.00	H
ATOM19 2HB		SER A	2130.522	-1.688	2.163	1.00	0.00	H
ATOM20	HG	SER A	2130.040	-4.034	0.839	1.00	0.00	H
ATOM21	N	SER A	3127.155	-3.392	0.861	1.00	0.00	N
ATOM22	CA	SER A	3126.063	-3.622	-0.079	1.00	0.00	C
ATOM23	C	SER A	3124.712	-3.534	0.624	1.00	0.00	C
ATOM24	O	SER A	3124.618	-3.732	1.836	1.00	0.00	O
ATOM25	CB	SER A	3126.216	-4.989	-0.747	1.00	0.00	C
ATOM26	OG	SER A	3126.958	-4.889	-1.950	1.00	0.00	O
ATOM27	H	SER A	3127.825	-4.094	0.995	1.00	0.00	H
ATOM28	HA	SER A	3126.111	-2.853	-0.836	1.00	0.00	H
ATOM29 1HB		SER A	3126.733	-5.659	-0.076	1.00	0.00	H
ATOM30 2HB		SER A	3125.239	-5.388	-0.972	1.00	0.00	H

ATOM31	HG	SER A	3127.724	-4.327	-1.809	1.00	0.00	H
ATOM32	N	GLY A	4123.668	-3.236	-0.143	1.00	0.00	N
ATOM33	CA	GLY A	4122.338	-3.127	0.425	1.00	0.00	C
ATOM34	C	GLY A	4122.252	-2.063	1.500	1.00	0.00	C
ATOM35	O	GLY A	4123.271	-1.522	1.928	1.00	0.00	O
ATOM36	H	GLY A	4123.804	-3.088	-1.103	1.00	0.00	H
ATOM37	1HA	GLY A	4121.641	-2.885	-0.364	1.00	0.00	H
ATOM38	2HA	GLY A	4122.062	-4.080	0.853	1.00	0.00	H
ATOM39	N	SER A	5121.032	-1.761	1.938	1.00	0.00	N
ATOM40	CA	SER A	5120.812	-0.752	2.971	1.00	0.00	C
ATOM41	C	SER A	5121.111	0.647	2.440	1.00	0.00	C
ATOM42	O	SER A	5120.218	1.488	2.344	1.00	0.00	O
ATOM43	CB	SER A	5121.680	-1.042	4.198	1.00	0.00	C
ATOM44	OG	SER A	5120.979	-0.763	5.397	1.00	0.00	O
ATOM45	H	SER A	5120.260	-2.229	1.555	1.00	0.00	H
ATOM46	HA	SER A	5119.773	-0.799	3.259	1.00	0.00	H
ATOM47	1HB	SER A	5121.964	-2.085	4.197	1.00	0.00	H
ATOM48	2HB	SER A	5122.568	-0.428	4.162	1.00	0.00	H
ATOM49	HG	SER A	5120.189	-1.306	5.440	1.00	0.00	H
ATOM50	N	SER A	6122.373	0.889	2.097	1.00	0.00	N
ATOM51	CA	SER A	6122.793	2.186	1.576	1.00	0.00	C
ATOM52	C	SER A	6122.700	3.261	2.653	1.00	0.00	C
ATOM53	O	SER A	6121.654	3.883	2.837	1.00	0.00	O
ATOM54	CB	SER A	6121.937	2.580	0.369	1.00	0.00	C
ATOM55	OG	SER A	6121.576	1.443	-0.394	1.00	0.00	O
ATOM56	H	SER A	6123.040	0.178	2.198	1.00	0.00	H
ATOM57	HA	SER A	6123.822	2.098	1.262	1.00	0.00	H

ATOM58	1HB	SER A	6121.038	3.068	0.713	1.00	0.00	H
ATOM59	2HB	SER A	6122.497	3.259	-0.259	1.00	0.00	H
ATOM60	HG	SER A	6120.764	1.623	-0.873	1.00	0.00	H
ATOM61	N	GLY A	7123.804	3.476	3.363	1.00	0.00	N
ATOM62	CA	GLY A	7123.829	4.477	4.412	1.00	0.00	C
ATOM63	C	GLY A	7125.104	5.296	4.400	1.00	0.00	C
ATOM64	O	GLY A	7125.065	6.520	4.527	1.00	0.00	O
ATOM65	H	GLY A	7124.609	2.950	3.170	1.00	0.00	H
ATOM66	1HA	GLY A	7122.986	5.140	4.283	1.00	0.00	H
ATOM67	2HA	GLY A	7123.740	3.983	5.369	1.00	0.00	H
ATOM68	N	LEU A	8126.238	4.620	4.248	1.00	0.00	N
ATOM69	CA	LEU A	8127.532	5.292	4.219	1.00	0.00	C
ATOM70	C	LEU A	8128.105	5.309	2.805	1.00	0.00	C
ATOM71	O	LEU A	8128.927	4.466	2.448	1.00	0.00	O
ATOM72	CB	LEU A	8128.512	4.600	5.169	1.00	0.00	C
ATOM73	CG	LEU A	8127.931	4.217	6.531	1.00	0.00	C
ATOM74	CD1	LEU A	8128.639	2.991	7.087	1.00	0.00	C
ATOM75	CD2	LEU A	8128.039	5.384	7.502	1.00	0.00	C
ATOM76	H	LEU A	8126.204	3.645	4.152	1.00	0.00	H
ATOM77	HA	LEU A	8127.384	6.310	4.548	1.00	0.00	H
ATOM78	1HB	LEU A	8128.872	3.702	4.689	1.00	0.00	H
ATOM79	2HB	LEU A	8129.349	5.261	5.333	1.00	0.00	H
ATOM80	HG	LEU A	8126.885	3.974	6.415	1.00	0.00	H
ATOM81	1HD1	LEU A	8128.427	2.901	8.143	1.00	0.00	H
ATOM82	2HD1	LEU A	8129.705	3.094	6.942	1.00	0.00	H
ATOM83	3HD1	LEU A	8128.288	2.108	6.573	1.00	0.00	H
ATOM84	1HD2	LEU A	8127.268	5.299	8.253	1.00	0.00	H

ATOM85	2HD2	LEU A	8127.917	6.312	6.964	1.00	0.00	H	
ATOM86	3HD2	LEU A	8129.008	5.368	7.978	1.00	0.00	H	
ATOM87	N	ALAA	9127.663	6.274	2.004	1.00	0.00	N	
ATOM88	CA	ALAA	9128.131	6.400	0.630	1.00	0.00	C	
ATOM89	C	ALAA	9128.306	7.864	0.241	1.00	0.00	C	
ATOM90	O	ALAA	9127.411	8.683	0.450	1.00	0.00	O	
ATOM91	CB	ALAA	9127.166	5.710	-0.321	1.00	0.00	C	
ATOM92	H	ALAA	9127.007	6.917	2.347	1.00	0.00	H	
ATOM93	HA	ALAA	9129.088	5.903	0.558	1.00	0.00	H	
ATOM94	1HB	ALAA	9126.500	6.444	-0.753	1.00	0.00	H	
ATOM95	2HB	ALAA	9126.588	4.976	0.222	1.00	0.00	H	
ATOM96	3HB	ALAA	9127.721	5.222	-1.107	1.00	0.00	H	
ATOM97	N	META	10129.464	8.186	-0.326	1.00	0.00	N	
ATOM98	CA	META	10129.755	9.553	-0.746	1.00	0.00	C	
ATOM99	C	META	10130.359	9.575	-2.148	1.00	0.00	C	
ATOM	100	O	META	10131.577	9.500	-2.309	1.00	0.00	O
ATOM	101	CB	META	10130.713	10.218	0.244	1.00	0.00	C
ATOM	102	CG	META	10130.546	11.726	0.332	1.00	0.00	C
ATOM	103	SD	META	10132.032	12.556	0.926	1.00	0.00	S
ATOM	104	CE	META	10132.482	11.502	2.302	1.00	0.00	C
ATOM	105	H	META	10130.137	7.489	-0.466	1.00	0.00	H
ATOM	106	HA	META	10128.826	10.101	-0.756	1.00	0.00	H
ATOM	107	1HB	META	10130.546	9.801	1.225	1.00	0.00	H
ATOM	108	2HB	META	10131.728	10.008	-0.059	1.00	0.00	H
ATOM	109	1HG	META	10130.307	12.107	-0.649	1.00	0.00	H
ATOM	110	2HG	META	10129.733	11.945	1.009	1.00	0.00	H
ATOM	111	1HE	META	10131.660	10.838	2.531	1.00	0.00	H

ATOM	112	2HE	MET A	10132.704	12.111	3.166	1.00	0.00	H
ATOM	113	3HE	MET A	10133.353	10.919	2.040	1.00	0.00	H
ATOM	114	N	PRO A	11129.510	9.679	-3.186	1.00	0.00	N
ATOM	115	CA	PRO A	11129.968	9.712	-4.578	1.00	0.00	C
ATOM	116	C	PRO A	11130.980	10.829	-4.830	1.00	0.00	C
ATOM	117	O	PRO A	11132.013	10.604	-5.461	1.00	0.00	O
ATOM	118	CB	PRO A	11128.690	9.958	-5.383	1.00	0.00	C
ATOM	119	CG	PRO A	11127.575	9.536	-4.490	1.00	0.00	C
ATOM	120	CD	PRO A	11128.044	9.776	-3.082	1.00	0.00	C
ATOM	121	HA	PRO A	11130.404	8.768	-4.869	1.00	0.00	H
ATOM	122	1HB	PRO A	11128.619	11.004	-5.640	1.00	0.00	H
ATOM	123	2HB	PRO A	11128.714	9.365	-6.286	1.00	0.00	H
ATOM	124	1HG	PRO A	11126.699	10.131	-4.695	1.00	0.00	H
ATOM	125	2HG	PRO A	11127.361	8.488	-4.639	1.00	0.00	H
ATOM	126	1HD	PRO A	11127.745	10.759	-2.747	1.00	0.00	H
ATOM	127	2HD	PRO A	11127.654	9.016	-2.420	1.00	0.00	H
ATOM	128	N	PRO A	12130.705	12.051	-4.336	1.00	0.00	N
ATOM	129	CA	PRO A	12131.611	13.191	-4.516	1.00	0.00	C
ATOM	130	C	PRO A	12132.995	12.918	-3.938	1.00	0.00	C
ATOM	131	O	PRO A	12133.971	13.573	-4.303	1.00	0.00	O
ATOM	132	CB	PRO A	12130.928	14.329	-3.749	1.00	0.00	C
ATOM	133	CG	PRO A	12129.499	13.920	-3.643	1.00	0.00	C
ATOM	134	CD	PRO A	12129.506	12.421	-3.563	1.00	0.00	C
ATOM	135	HA	PRO A	12131.705	13.460	-5.558	1.00	0.00	H
ATOM	136	1HB	PRO A	12131.382	14.431	-2.775	1.00	0.00	H
ATOM	137	2HB	PRO A	12131.033	15.251	-4.300	1.00	0.00	H
ATOM	138	1HG	PRO A	12129.061	14.342	-2.750	1.00	0.00	H

ATOM	139	2HG	PRO A	12128.957	14.246	-4.519	1.00	0.00	H
ATOM	140	1HD	PRO A	12129.593	12.098	-2.536	1.00	0.00	H
ATOM	141	2HD	PRO A	12128.615	12.015	-4.013	1.00	0.00	H
ATOM	142	N	GLY A	13133.070	11.946	-3.033	1.00	0.00	N
ATOM	143	CA	GLY A	13134.339	11.603	-2.418	1.00	0.00	C
ATOM	144	C	GLY A	13135.224	10.780	-3.333	1.00	0.00	C
ATOM	145	O	GLY A	13135.246	10.995	-4.545	1.00	0.00	O
ATOM	146	H	GLY A	13132.258	11.458	-2.781	1.00	0.00	H
ATOM	147	1HA	GLY A	13134.858	12.515	-2.158	1.00	0.00	H
ATOM	148	2HA	GLY A	13134.149	11.040	-1.517	1.00	0.00	H
ATOM	149	N	ASN A	14135.956	9.835	-2.753	1.00	0.00	N
ATOM	150	CA	ASN A	14136.846	8.976	-3.524	1.00	0.00	C
ATOM	151	C	ASN A	14136.100	7.759	-4.061	1.00	0.00	C
ATOM	152	O	ASN A	14136.231	7.404	-5.232	1.00	0.00	O
ATOM	153	CB	ASN A	14138.027	8.525	-2.662	1.00	0.00	C
ATOM	154	CG	ASN A	14138.857	9.692	-2.162	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.854	10.769	-2.756	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.573	9.481	-1.064	1.00	0.00	N
ATOM	157	H	ASN A	14135.895	9.712	-1.782	1.00	0.00	H
ATOM	158	HA	ASN A	14137.220	9.551	-4.358	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.653	7.982	-1.806	1.00	0.00	H
ATOM	160	2HB	ASN A	14138.663	7.876	-3.245	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.527	8.597	-0.644	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.120	10.217	-0.719	1.00	0.00	H
ATOM	163	N	SER A	15135.315	7.125	-3.196	1.00	0.00	N
ATOM	164	CA	SER A	15134.547	5.947	-3.583	1.00	0.00	C
ATOM	165	C	SER A	15133.644	5.488	-2.442	1.00	0.00	C

ATOM	166	O	SER A	15132.494	5.108	-2.662	1.00	0.00	O
ATOM	167	CB	SER A	15135.486	4.812	-3.996	1.00	0.00	C
ATOM	168	OG	SER A	15136.245	4.351	-2.892	1.00	0.00	O
ATOM	169	H	SER A	15135.251	7.455	-2.275	1.00	0.00	H
ATOM	170	HA	SER A	15133.930	6.217	-4.427	1.00	0.00	H
ATOM	171	1HB	SER A	15134.904	3.989	-4.385	1.00	0.00	H
ATOM	172	2HB	SER A	15136.162	5.168	-4.759	1.00	0.00	H
ATOM	173	HG	SER A	15137.023	4.903	-2.786	1.00	0.00	H
ATOM	174	N	HIS A	16134.175	5.525	-1.224	1.00	0.00	N
ATOM	175	CA	HIS A	16133.417	5.111	-0.049	1.00	0.00	C
ATOM	176	C	HIS A	16133.979	5.757	1.214	1.00	0.00	C
ATOM	177	O	HIS A	16133.236	6.307	2.026	1.00	0.00	O
ATOM	178	CB	HIS A	16133.435	3.586	0.086	1.00	0.00	C
ATOM	179	CG	HIS A	16132.079	2.962	-0.010	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.135	3.053	0.991	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.507	2.232	-0.998	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.042	2.407	0.624	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.242	1.900	-0.578	1.00	0.00	N
ATOM	184	H	HIS A	16135.097	5.836	-1.113	1.00	0.00	H
ATOM	185	HA	HIS A	16132.397	5.439	-0.181	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.049	3.170	-0.699	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.858	3.320	1.044	1.00	0.00	H
ATOM	188	HD1	HIS A	16131.249	3.521	1.845	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.962	1.962	-1.940	1.00	0.00	H
ATOM	190	HE1	HIS A	16129.139	2.311	1.208	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.625	1.303	-1.049	1.00	0.00	H
ATOM	192	N	GLY A	17135.297	5.683	1.373	1.00	0.00	N

ATOM	193	CA	GLY A	17135.936	6.264	2.539	1.00	0.00	C
ATOM	194	C	GLY A	17137.228	5.562	2.903	1.00	0.00	C
ATOM	195	O	GLY A	17137.354	5.004	3.994	1.00	0.00	O
ATOM	196	H	GLY A	17135.839	5.232	0.693	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.149	7.304	2.339	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.257	6.203	3.377	1.00	0.00	H
ATOM	199	N	LEU A	18138.193	5.587	1.989	1.00	0.00	N
ATOM	200	CA	LEU A	18139.483	4.948	2.219	1.00	0.00	C
ATOM	201	C	LEU A	18140.546	5.982	2.577	1.00	0.00	C
ATOM	202	O	LEU A	18140.944	6.792	1.741	1.00	0.00	O
ATOM	203	CB	LEU A	18139.915	4.162	0.980	1.00	0.00	C
ATOM	204	CG	LEU A	18138.847	3.235	0.396	1.00	0.00	C
ATOM	205	CD1	LEU A	18139.067	3.043	-1.097	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.857	1.894	1.114	1.00	0.00	C
ATOM	207	H	LEU A	18138.033	6.049	1.139	1.00	0.00	H
ATOM	208	HA	LEU A	18139.370	4.264	3.047	1.00	0.00	H
ATOM	209	1HB	LEU A	18140.207	4.868	0.216	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.775	3.563	1.240	1.00	0.00	H
ATOM	211	HG	LEU A	18137.875	3.684	0.534	1.00	0.00	H
ATOM	212	1HD1	LEU A	18138.111	2.991	-1.597	1.00	0.00	H
ATOM	213	2HD1	LEU A	18139.612	2.126	-1.266	1.00	0.00	H
ATOM	214	3HD1	LEU A	18139.632	3.876	-1.488	1.00	0.00	H
ATOM	215	1HD2	LEU A	18137.880	1.440	1.041	1.00	0.00	H
ATOM	216	2HD2	LEU A	18139.107	2.045	2.154	1.00	0.00	H
ATOM	217	3HD2	LEU A	18139.590	1.246	0.658	1.00	0.00	H
ATOM	218	N	GLU A	19141.003	5.945	3.825	1.00	0.00	N
ATOM	219	CA	GLU A	19142.020	6.879	4.293	1.00	0.00	C

ATOM	220	C	GLU A	19143.006	6.186	5.228	1.00	0.00	C
ATOM	221	O	GLU A	19142.874	4.996	5.513	1.00	0.00	O
ATOM	222	CB	GLU A	19141.365	8.062	5.010	1.00	0.00	C
ATOM	223	CG	GLU A	19140.356	7.647	6.069	1.00	0.00	C
ATOM	224	CD	GLU A	19140.441	8.499	7.320	1.00	0.00	C
ATOM	225	OE1	GLU A	19139.379	8.824	7.891	1.00	0.00	O
ATOM	226	OE2	GLU A	19141.570	8.843	7.730	1.00	0.00	O
ATOM	227	H	GLU A	19140.647	5.276	4.445	1.00	0.00	H
ATOM	228	HA	GLU A	19142.556	7.246	3.431	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.135	8.649	5.487	1.00	0.00	H
ATOM	230	2HB	GLU A	19140.856	8.674	4.280	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.363	7.738	5.657	1.00	0.00	H
ATOM	232	2HG	GLU A	19140.540	6.618	6.340	1.00	0.00	H
ATOM	233	N	VAL A	20143.994	6.939	5.702	1.00	0.00	N
ATOM	234	CA	VAL A	20145.003	6.398	6.605	1.00	0.00	C
ATOM	235	C	VAL A	20144.363	5.835	7.870	1.00	0.00	C
ATOM	236	O	VAL A	20143.408	6.402	8.400	1.00	0.00	O
ATOM	237	CB	VAL A	20146.035	7.470	7.000	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.175	6.849	7.793	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.563	8.184	5.765	1.00	0.00	C
ATOM	240	H	VAL A	20144.045	7.882	5.438	1.00	0.00	H
ATOM	241	HA	VAL A	20145.520	5.603	6.089	1.00	0.00	H
ATOM	242	HB	VAL A	20145.546	8.199	7.628	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.826	6.589	8.781	1.00	0.00	H
ATOM	244	2HG1	VAL A	20147.987	7.558	7.873	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.523	5.960	7.289	1.00	0.00	H
ATOM	246	1HG2	VAL A	20145.905	9.001	5.513	1.00	0.00	H

ATOM	247	2HG2	VAL A	20146.608	7.489	4.939	1.00	0.00	H
ATOM	248	3HG2	VAL A	20147.552	8.568	5.965	1.00	0.00	H
ATOM	249	N	GLY A	21144.897	4.714	8.348	1.00	0.00	N
ATOM	250	CA	GLY A	21144.365	4.094	9.547	1.00	0.00	C
ATOM	251	C	GLY A	21143.362	2.999	9.237	1.00	0.00	C
ATOM	252	O	GLY A	21143.332	1.968	9.909	1.00	0.00	O
ATOM	253	H	GLY A	21145.657	4.307	7.882	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.181	3.670	10.111	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.881	4.850	10.147	1.00	0.00	H
ATOM	256	N	SER A	22142.540	3.222	8.216	1.00	0.00	N
ATOM	257	CA	SER A	22141.533	2.247	7.819	1.00	0.00	C
ATOM	258	C	SER A	22142.140	1.169	6.927	1.00	0.00	C
ATOM	259	O	SER A	22143.184	1.377	6.308	1.00	0.00	O
ATOM	260	CB	SER A	22140.381	2.940	7.088	1.00	0.00	C
ATOM	261	OG	SER A	22139.915	4.061	7.820	1.00	0.00	O
ATOM	262	H	SER A	22142.615	4.063	7.719	1.00	0.00	H
ATOM	263	HA	SER A	22141.150	1.782	8.716	1.00	0.00	H
ATOM	264	1HB	SER A	22140.722	3.275	6.120	1.00	0.00	H
ATOM	265	2HB	SER A	22139.566	2.244	6.962	1.00	0.00	H
ATOM	266	HG	SER A	22139.825	3.824	8.746	1.00	0.00	H
ATOM	267	N	LEU A	23141.480	0.017	6.867	1.00	0.00	N
ATOM	268	CA	LEU A	23141.956	-1.095	6.052	1.00	0.00	C
ATOM	269	C	LEU A	23141.365	-1.033	4.648	1.00	0.00	C
ATOM	270	O	LEU A	23140.256	-0.536	4.451	1.00	0.00	O
ATOM	271	CB	LEU A	23141.597	-2.428	6.711	1.00	0.00	C
ATOM	272	CG	LEU A	23142.398	-2.764	7.970	1.00	0.00	C
ATOM	273	CD1	LEU A	23141.572	-3.626	8.913	1.00	0.00	C

ATOM	274	CD2	LEU A	23143.697	-3.466	7.602	1.00	0.00	C
ATOM	275	H	LEU A	23140.655	-0.089	7.384	1.00	0.00	H
ATOM	276	HA	LEU A	23143.031	-1.017	5.981	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.549	-2.406	6.971	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.755	-3.216	5.990	1.00	0.00	H
ATOM	279	HG	LEU A	23142.646	-1.848	8.485	1.00	0.00	H
ATOM	280	1HD1	LEU A	23141.798	-4.668	8.739	1.00	0.00	H
ATOM	281	2HD1	LEU A	23140.522	-3.451	8.734	1.00	0.00	H
ATOM	282	3HD1	LEU A	23141.811	-3.372	9.935	1.00	0.00	H
ATOM	283	1HD2	LEU A	23144.307	-3.580	8.485	1.00	0.00	H
ATOM	284	2HD2	LEU A	23144.230	-2.877	6.870	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.475	-4.439	7.190	1.00	0.00	H
ATOM	286	N	ALAA	24142.112	-1.543	3.674	1.00	0.00	N
ATOM	287	CA	ALAA	24141.663	-1.547	2.287	1.00	0.00	C
ATOM	288	C	ALAA	24142.247	-2.733	1.526	1.00	0.00	C
ATOM	289	O	ALAA	24143.268	-3.294	1.920	1.00	0.00	O
ATOM	290	CB	ALAA	24142.041	-0.242	1.605	1.00	0.00	C
ATOM	291	H	ALAA	24142.987	-1.926	3.894	1.00	0.00	H
ATOM	292	HA	ALAA	24140.585	-1.627	2.286	1.00	0.00	H
ATOM	293	1HB	ALAA	24143.115	-0.194	1.488	1.00	0.00	H
ATOM	294	2HB	ALAA	24141.710	0.590	2.210	1.00	0.00	H
ATOM	295	3HB	ALAA	24141.571	-0.191	0.635	1.00	0.00	H
ATOM	296	N	GLU A	25141.590	-3.108	0.432	1.00	0.00	N
ATOM	297	CA	GLU A	25142.043	-4.228	-0.385	1.00	0.00	C
ATOM	298	C	GLU A	25142.350	-3.772	-1.808	1.00	0.00	C
ATOM	299	O	GLU A	25141.727	-2.844	-2.321	1.00	0.00	O
ATOM	300	CB	GLU A	25140.984	-5.332	-0.407	1.00	0.00	C

ATOM	301	CG	GLU A	25141.514	-6.676	-0.879	1.00	0.00	C
ATOM	302	CD	GLU A	25140.504	-7.441	-1.711	1.00	0.00	C
ATOM	303	OE1	GLU A	25140.920	-8.347	-2.463	1.00	0.00	O
ATOM	304	OE2	GLU A	25139.298	-7.134	-1.611	1.00	0.00	O
ATOM	305	H	GLU A	25140.781	-2.621	0.169	1.00	0.00	H
ATOM	306	HA	GLU A	25142.947	-4.617	0.058	1.00	0.00	H
ATOM	307	1HB	GLU A	25140.589	-5.454	0.590	1.00	0.00	H
ATOM	308	2HB	GLU A	25140.184	-5.032	-1.068	1.00	0.00	H
ATOM	309	1HG	GLU A	25142.399	-6.511	-1.476	1.00	0.00	H
ATOM	310	2HG	GLU A	25141.771	-7.270	-0.013	1.00	0.00	H
ATOM	311	N	VAL A	26143.315	-4.433	-2.442	1.00	0.00	N
ATOM	312	CA	VAL A	26143.705	-4.095	-3.805	1.00	0.00	C
ATOM	313	C	VAL A	26143.324	-5.207	-4.777	1.00	0.00	C
ATOM	314	O	VAL A	26143.308	-6.383	-4.414	1.00	0.00	O
ATOM	315	CB	VAL A	26145.219	-3.835	-3.909	1.00	0.00	C
ATOM	316	CG1	VAL A	26145.574	-3.289	-5.284	1.00	0.00	C
ATOM	317	CG2	VAL A	26145.674	-2.882	-2.814	1.00	0.00	C
ATOM	318	H	VAL A	26143.776	-5.165	-1.979	1.00	0.00	H
ATOM	319	HA	VAL A	26143.184	-3.191	-4.086	1.00	0.00	H
ATOM	320	HB	VAL A	26145.735	-4.775	-3.776	1.00	0.00	H
ATOM	321	1HG1	VAL A	26145.885	-4.100	-5.925	1.00	0.00	H
ATOM	322	2HG1	VAL A	26146.379	-2.575	-5.190	1.00	0.00	H
ATOM	323	3HG1	VAL A	26144.710	-2.802	-5.712	1.00	0.00	H
ATOM	324	1HG2	VAL A	26145.138	-1.948	-2.905	1.00	0.00	H
ATOM	325	2HG2	VAL A	26146.733	-2.700	-2.913	1.00	0.00	H
ATOM	326	3HG2	VAL A	26145.472	-3.321	-1.849	1.00	0.00	H
ATOM	327	N	LYS A	27143.019	-4.827	-6.013	1.00	0.00	N

ATOM	328	CA	LYS A	27142.638	-5.792	-7.038	1.00	0.00	C
ATOM	329	C	LYS A	27143.856	-6.246	-7.835	1.00	0.00	C
ATOM	330	O	LYS A	27144.131	-5.728	-8.917	1.00	0.00	O
ATOM	331	CB	LYS A	27141.596	-5.184	-7.978	1.00	0.00	C
ATOM	332	CG	LYS A	27140.860	-6.215	-8.820	1.00	0.00	C
ATOM	333	CD	LYS A	27141.342	-6.206	-10.262	1.00	0.00	C
ATOM	334	CE	LYS A	27141.289	-7.596	-10.876	1.00	0.00	C
ATOM	335	NZ	LYS A	27141.792	-7.605	-12.277	1.00	0.00	N
ATOM	336	H	LYS A	27143.050	-3.875	-6.241	1.00	0.00	H
ATOM	337	HA	LYS A	27142.208	-6.649	-6.542	1.00	0.00	H
ATOM	338	1HB	LYS A	27140.867	-4.647	-7.389	1.00	0.00	H
ATOM	339	2HB	LYS A	27142.089	-4.491	-8.645	1.00	0.00	H
ATOM	340	1HG	LYS A	27141.031	-7.196	-8.400	1.00	0.00	H
ATOM	341	2HG	LYS A	27139.803	-5.993	-8.801	1.00	0.00	H
ATOM	342	1HD	LYS A	27140.712	-5.546	-10.838	1.00	0.00	H
ATOM	343	2HD	LYS A	27142.362	-5.850	-10.289	1.00	0.00	H
ATOM	344	1HE	LYS A	27141.897	-8.262	-10.281	1.00	0.00	H
ATOM	345	2HE	LYS A	27140.265	-7.940	-10.867	1.00	0.00	H
ATOM	346	1HZ	LYS A	27142.831	-7.630	-12.284	1.00	0.00	H
ATOM	347	2HZ	LYS A	27141.475	-6.749	-12.776	1.00	0.00	H
ATOM	348	3HZ	LYS A	27141.431	-8.439	-12.781	1.00	0.00	H
ATOM	349	N	GLU A	28144.583	-7.219	-7.294	1.00	0.00	N
ATOM	350	CA	GLU A	28145.772	-7.744	-7.955	1.00	0.00	C
ATOM	351	C	GLU A	28145.696	-9.263	-8.080	1.00	0.00	C
ATOM	352	O	GLU A	28144.649	-9.864	-7.844	1.00	0.00	O
ATOM	353	CB	GLU A	28147.030	-7.343	-7.180	1.00	0.00	C
ATOM	354	CG	GLU A	28148.126	-6.764	-8.060	1.00	0.00	C

ATOM	355	CD	GLU A	28148.802	-5.560	-7.433	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.942	-5.707	-6.944	1.00	0.00	O
ATOM	357	OE2	GLU A	28148.191	-4.471	-7.431	1.00	0.00	O
ATOM	358	H	GLU A	28144.312	-7.593	-6.429	1.00	0.00	H
ATOM	359	HA	GLU A	28145.817	-7.315	-8.945	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.763	-6.603	-6.441	1.00	0.00	H
ATOM	361	2HB	GLU A	28147.424	-8.215	-6.678	1.00	0.00	H
ATOM	362	1HG	GLU A	28148.871	-7.526	-8.233	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.693	-6.465	-9.003	1.00	0.00	H
ATOM	364	N	ASN A	29146.815	-9.877	-8.453	1.00	0.00	N
ATOM	365	CA	ASN A	29146.875	-11.325	-8.608	1.00	0.00	C
ATOM	366	C	ASN A	29146.931	-12.016	-7.247	1.00	0.00	C
ATOM	367	O	ASN A	29146.068	-12.831	-6.920	1.00	0.00	O
ATOM	368	CB	ASN A	29148.093	-11.719	-9.448	1.00	0.00	C
ATOM	369	CG	ASN A	29147.735	-11.979	-10.898	1.00	0.00	C
ATOM	370	OD1	ASN A	29147.584	-13.127	-11.316	1.00	0.00	O
ATOM	371	ND2	ASN A	29147.598	-10.910	-11.674	1.00	0.00	N
ATOM	372	H	ASN A	29147.619	-9.344	-8.626	1.00	0.00	H
ATOM	373	HA	ASN A	29145.978	-11.640	-9.121	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.819	-10.921	-9.413	1.00	0.00	H
ATOM	375	2HB	ASN A	29148.531	-12.617	-9.037	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.734	-10.027	-11.273	1.00	0.00	H
ATOM	377	2HD2	ASN A	29147.368	-11.049	-12.616	1.00	0.00	H
ATOM	378	N	PRO A	30147.953	-11.697	-6.434	1.00	0.00	N
ATOM	379	CA	PRO A	30148.120	-12.289	-5.105	1.00	0.00	C
ATOM	380	C	PRO A	30147.205	-11.646	-4.063	1.00	0.00	C
ATOM	381	O	PRO A	30147.389	-10.485	-3.701	1.00	0.00	O

ATOM	382	CB	PRO A	30149.583	-11.995	-4.782	1.00	0.00	C
ATOM	383	CG	PRO A	30149.872	-10.721	-5.497	1.00	0.00	C
ATOM	384	CD	PRO A	30149.028	-10.735	-6.746	1.00	0.00	C
ATOM	385	HA	PRO A	30147.959	-13.357	-5.123	1.00	0.00	H
ATOM	386	1HB	PRO A	30149.705	-11.890	-3.714	1.00	0.00	H
ATOM	387	2HB	PRO A	30150.205	-12.800	-5.145	1.00	0.00	H
ATOM	388	1HG	PRO A	30149.602	-9.881	-4.872	1.00	0.00	H
ATOM	389	2HG	PRO A	30150.920	-10.674	-5.754	1.00	0.00	H
ATOM	390	1HD	PRO A	30148.621	-9.752	-6.936	1.00	0.00	H
ATOM	391	2HD	PRO A	30149.612	-11.070	-7.590	1.00	0.00	H
ATOM	392	N	PRO A	31146.201	-12.393	-3.566	1.00	0.00	N
ATOM	393	CA	PRO A	31145.261	-11.880	-2.562	1.00	0.00	C
ATOM	394	C	PRO A	31145.954	-11.524	-1.252	1.00	0.00	C
ATOM	395	O	PRO A	31146.396	-12.403	-0.513	1.00	0.00	O
ATOM	396	CB	PRO A	31144.280	-13.041	-2.347	1.00	0.00	C
ATOM	397	CG	PRO A	31144.464	-13.934	-3.527	1.00	0.00	C
ATOM	398	CD	PRO A	31145.900	-13.784	-3.937	1.00	0.00	C
ATOM	399	HA	PRO A	31144.725	-11.017	-2.930	1.00	0.00	H
ATOM	400	1HB	PRO A	31144.523	-13.553	-1.427	1.00	0.00	H
ATOM	401	2HB	PRO A	31143.272	-12.660	-2.297	1.00	0.00	H
ATOM	402	1HG	PRO A	31144.257	-14.958	-3.251	1.00	0.00	H
ATOM	403	2HG	PRO A	31143.812	-13.622	-4.330	1.00	0.00	H
ATOM	404	1HD	PRO A	31146.524	-14.474	-3.389	1.00	0.00	H
ATOM	405	2HD	PRO A	31146.009	-13.933	-5.000	1.00	0.00	H
ATOM	406	N	PHE A	32146.045	-10.228	-0.969	1.00	0.00	N
ATOM	407	CA	PHE A	32146.685	-9.757	0.254	1.00	0.00	C
ATOM	408	C	PHE A	32145.819	-8.715	0.955	1.00	0.00	C

ATOM	409	O	PHE A	32144.887	-8.169	0.365	1.00	0.00	O
ATOM	410	CB	PHE A	32148.062	-9.169	-0.058	1.00	0.00	C
ATOM	411	CG	PHE A	32148.060	-8.215	-1.219	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.759	-8.514	-2.377	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.362	-7.020	-1.150	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.759	-7.640	-3.448	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.359	-6.142	-2.217	1.00	0.00	C
ATOM	416	CZ	PHE A	32148.059	-6.452	-3.368	1.00	0.00	C
ATOM	417	H	PHE A	32145.674	-9.573	-1.596	1.00	0.00	H
ATOM	418	HA	PHE A	32146.807	-10.605	0.911	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.421	-8.635	0.809	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.746	-9.973	-0.287	1.00	0.00	H
ATOM	421	HD1	PHE A	32149.306	-9.443	-2.442	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.815	-6.776	-0.252	1.00	0.00	H
ATOM	423	HE1	PHE A	32149.308	-7.885	-4.346	1.00	0.00	H
ATOM	424	HE2	PHE A	32146.811	-5.213	-2.153	1.00	0.00	H
ATOM	425	HZ	PHE A	32148.059	-5.767	-4.202	1.00	0.00	H
ATOM	426	N	TYR A	33146.135	-8.443	2.217	1.00	0.00	N
ATOM	427	CA	TYR A	33145.387	-7.466	2.999	1.00	0.00	C
ATOM	428	C	TYR A	33146.331	-6.522	3.736	1.00	0.00	C
ATOM	429	O	TYR A	33147.344	-6.948	4.290	1.00	0.00	O
ATOM	430	CB	TYR A	33144.472	-8.176	3.999	1.00	0.00	C
ATOM	431	CG	TYR A	33143.246	-8.794	3.366	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.976	-10.149	3.508	1.00	0.00	C
ATOM	433	CD2	TYR A	33142.360	-8.023	2.625	1.00	0.00	C
ATOM	434	CE1	TYR A	33141.857	-10.718	2.931	1.00	0.00	C
ATOM	435	CE2	TYR A	33141.238	-8.584	2.045	1.00	0.00	C

ATOM	436	CZ	TYR A	33140.992	-9.931	2.200	1.00	0.00	C
ATOM	437	OH	TYR A	33139.875	-10.494	1.624	1.00	0.00	O
ATOM	438	H	TYR A	33146.890	-8.911	2.633	1.00	0.00	H
ATOM	439	HA	TYR A	33144.781	-6.890	2.316	1.00	0.00	H
ATOM	440	1HB	TYR A	33145.026	-8.963	4.486	1.00	0.00	H
ATOM	441	2HB	TYR A	33144.141	-7.464	4.740	1.00	0.00	H
ATOM	442	HD1	TYR A	33143.656	-10.763	4.081	1.00	0.00	H
ATOM	443	HD2	TYR A	33142.556	-6.968	2.505	1.00	0.00	H
ATOM	444	HE1	TYR A	33141.663	-11.774	3.053	1.00	0.00	H
ATOM	445	HE2	TYR A	33140.561	-7.968	1.472	1.00	0.00	H
ATOM	446	HH	TYR A	33140.098	-11.360	1.275	1.00	0.00	H
ATOM	447	N	GLY A	34145.991	-5.237	3.739	1.00	0.00	N
ATOM	448	CA	GLY A	34146.818	-4.253	4.412	1.00	0.00	C
ATOM	449	C	GLY A	34146.029	-3.038	4.858	1.00	0.00	C
ATOM	450	O	GLY A	34144.844	-2.911	4.549	1.00	0.00	O
ATOM	451	H	GLY A	34145.172	-4.955	3.281	1.00	0.00	H
ATOM	452	1HA	GLY A	34147.272	-4.712	5.278	1.00	0.00	H
ATOM	453	2HA	GLY A	34147.599	-3.933	3.737	1.00	0.00	H
ATOM	454	N	VAL A	35146.687	-2.143	5.588	1.00	0.00	N
ATOM	455	CA	VAL A	35146.038	-0.932	6.079	1.00	0.00	C
ATOM	456	C	VAL A	35146.696	0.316	5.500	1.00	0.00	C
ATOM	457	O	VAL A	35147.920	0.388	5.382	1.00	0.00	O
ATOM	458	CB	VAL A	35146.078	-0.860	7.619	1.00	0.00	C
ATOM	459	CG1	VAL A	35147.514	-0.810	8.119	1.00	0.00	C
ATOM	460	CG2	VAL A	35145.288	0.341	8.119	1.00	0.00	C
ATOM	461	H	VAL A	35147.629	-2.300	5.802	1.00	0.00	H
ATOM	462	HA	VAL A	35145.004	-0.959	5.767	1.00	0.00	H

ATOM	463	HB	VAL A	35145.616	-1.754	8.012	1.00	0.00	H
ATOM	464	1HG1	VAL A	35147.617	-1.449	8.984	1.00	0.00	H
ATOM	465	2HG1	VAL A	35147.765	0.205	8.391	1.00	0.00	H
ATOM	466	3HG1	VAL A	35148.179	-1.148	7.339	1.00	0.00	H
ATOM	467	1HG2	VAL A	35144.239	0.197	7.903	1.00	0.00	H
ATOM	468	2HG2	VAL A	35145.637	1.234	7.622	1.00	0.00	H
ATOM	469	3HG2	VAL A	35145.425	0.444	9.185	1.00	0.00	H
ATOM	470	N	ILE A	36145.876	1.300	5.143	1.00	0.00	N
ATOM	471	CA	ILE A	36146.379	2.546	4.577	1.00	0.00	C
ATOM	472	C	ILE A	36147.308	3.255	5.558	1.00	0.00	C
ATOM	473	O	ILE A	36147.020	3.340	6.751	1.00	0.00	O
ATOM	474	CB	ILE A	36145.228	3.498	4.194	1.00	0.00	C
ATOM	475	CG1	ILE A	36144.210	2.776	3.308	1.00	0.00	C
ATOM	476	CG2	ILE A	36145.772	4.732	3.486	1.00	0.00	C
ATOM	477	CD1	ILE A	36143.058	3.654	2.872	1.00	0.00	C
ATOM	478	H	ILE A	36144.911	1.184	5.262	1.00	0.00	H
ATOM	479	HA	ILE A	36146.934	2.305	3.681	1.00	0.00	H
ATOM	480	HB	ILE A	36144.741	3.820	5.102	1.00	0.00	H
ATOM	481	1HG1	ILE A	36144.706	2.416	2.420	1.00	0.00	H
ATOM	482	2HG1	ILE A	36143.801	1.936	3.852	1.00	0.00	H
ATOM	483	1HG2	ILE A	36145.242	5.607	3.832	1.00	0.00	H
ATOM	484	2HG2	ILE A	36145.632	4.626	2.420	1.00	0.00	H
ATOM	485	3HG2	ILE A	36146.824	4.838	3.702	1.00	0.00	H
ATOM	486	1HD1	ILE A	36142.131	3.246	3.251	1.00	0.00	H
ATOM	487	2HD1	ILE A	36143.021	3.690	1.794	1.00	0.00	H
ATOM	488	3HD1	ILE A	36143.197	4.651	3.263	1.00	0.00	H
ATOM	489	N	ARG A	37148.425	3.761	5.045	1.00	0.00	N

ATOM	490	CA	ARG A	37149.398	4.463	5.876	1.00	0.00	C
ATOM	491	C	ARG A	37149.620	5.885	5.372	1.00	0.00	C
ATOM	492	O	ARG A	37149.301	6.854	6.060	1.00	0.00	O
ATOM	493	CB	ARG A	37150.725	3.703	5.895	1.00	0.00	C
ATOM	494	CG	ARG A	37150.572	2.216	6.176	1.00	0.00	C
ATOM	495	CD	ARG A	37150.497	1.937	7.668	1.00	0.00	C
ATOM	496	NE	ARG A	37149.266	2.455	8.261	1.00	0.00	N
ATOM	497	CZ	ARG A	37149.103	2.662	9.566	1.00	0.00	C
ATOM	498	NH1	ARG A	37150.087	2.396	10.417	1.00	0.00	N
ATOM	499	NH2	ARG A	37147.951	3.135	10.023	1.00	0.00	N
ATOM	500	H	ARG A	37148.601	3.660	4.086	1.00	0.00	H
ATOM	501	HA	ARG A	37149.005	4.507	6.880	1.00	0.00	H
ATOM	502	1HB	ARG A	37151.206	3.817	4.934	1.00	0.00	H
ATOM	503	2HB	ARG A	37151.359	4.128	6.658	1.00	0.00	H
ATOM	504	1HG	ARG A	37149.665	1.864	5.709	1.00	0.00	H
ATOM	505	2HG	ARG A	37151.421	1.692	5.762	1.00	0.00	H
ATOM	506	1HD	ARG A	37150.539	0.870	7.824	1.00	0.00	H
ATOM	507	2HD	ARG A	37151.343	2.404	8.151	1.00	0.00	H
ATOM	508	HE	ARG A	37148.523	2.659	7.656	1.00	0.00	H
ATOM	509	1HH1	ARG A	37150.957	2.038	10.079	1.00	0.00	H
ATOM	510	2HH1	ARG A	37149.958	2.554	11.395	1.00	0.00	H
ATOM	511	1HH2	ARG A	37147.206	3.338	9.387	1.00	0.00	H
ATOM	512	2HH2	ARG A	37147.828	3.291	11.003	1.00	0.00	H
ATOM	513	N	TRP A	38150.168	6.003	4.168	1.00	0.00	N
ATOM	514	CA	TRP A	38150.433	7.308	3.573	1.00	0.00	C
ATOM	515	C	TRP A	38149.677	7.472	2.256	1.00	0.00	C
ATOM	516	O	TRP A	38149.724	6.600	1.389	1.00	0.00	O

ATOM	517	CB	TRP A	38151.937	7.494	3.343	1.00	0.00	C
ATOM	518	CG	TRP A	38152.271	8.679	2.486	1.00	0.00	C
ATOM	519	CD1	TRP A	38152.549	9.947	2.909	1.00	0.00	C
ATOM	520	CD2	TRP A	38152.356	8.706	1.056	1.00	0.00	C
ATOM	521	NE1	TRP A	38152.802	10.760	1.830	1.00	0.00	N
ATOM	522	CE2	TRP A	38152.689	10.021	0.681	1.00	0.00	C
ATOM	523	CE3	TRP A	38152.183	7.745	0.057	1.00	0.00	C
ATOM	524	CZ2	TRP A	38152.852	10.398	-0.650	1.00	0.00	C
ATOM	525	CZ3	TRP A	38152.345	8.119	-1.263	1.00	0.00	C
ATOM	526	CH2	TRP A	38152.676	9.435	-1.607	1.00	0.00	C
ATOM	527	H	TRP A	38150.401	5.193	3.666	1.00	0.00	H
ATOM	528	HA	TRP A	38150.089	8.062	4.266	1.00	0.00	H
ATOM	529	1HB	TRP A	38152.427	7.624	4.296	1.00	0.00	H
ATOM	530	2HB	TRP A	38152.331	6.611	2.860	1.00	0.00	H
ATOM	531	HD1	TRP A	38152.564	10.253	3.945	1.00	0.00	H
ATOM	532	HE1	TRP A	38153.026	11.713	1.876	1.00	0.00	H
ATOM	533	HE3	TRP A	38151.927	6.725	0.301	1.00	0.00	H
ATOM	534	HZ2	TRP A	38153.105	11.409	-0.931	1.00	0.00	H
ATOM	535	HZ3	TRP A	38152.214	7.389	-2.050	1.00	0.00	H
ATOM	536	HH2	TRP A	38152.793	9.683	-2.653	1.00	0.00	H
ATOM	537	N	ILE A	39148.993	8.601	2.114	1.00	0.00	N
ATOM	538	CA	ILE A	39148.236	8.890	0.902	1.00	0.00	C
ATOM	539	C	ILE A	39148.716	10.190	0.268	1.00	0.00	C
ATOM	540	O	ILE A	39148.434	11.278	0.771	1.00	0.00	O
ATOM	541	CB	ILE A	39146.726	8.999	1.193	1.00	0.00	C
ATOM	542	CG1	ILE A	39146.253	7.793	2.006	1.00	0.00	C
ATOM	543	CG2	ILE A	39145.943	9.110	-0.106	1.00	0.00	C

ATOM	544	CD1	ILE A	39144.821	7.908	2.482	1.00	0.00	C
ATOM	545	H	ILE A	39149.002	9.259	2.839	1.00	0.00	H
ATOM	546	HA	ILE A	39148.392	8.079	0.207	1.00	0.00	H
ATOM	547	HB	ILE A	39146.556	9.898	1.765	1.00	0.00	H
ATOM	548	1HG1	ILE A	39146.329	6.904	1.398	1.00	0.00	H
ATOM	549	2HG1	ILE A	39146.885	7.682	2.876	1.00	0.00	H
ATOM	550	1HG2	ILE A	39146.511	8.664	-0.909	1.00	0.00	H
ATOM	551	2HG2	ILE A	39145.761	10.151	-0.328	1.00	0.00	H
ATOM	552	3HG2	ILE A	39145.000	8.593	-0.003	1.00	0.00	H
ATOM	553	1HD1	ILE A	39144.804	8.363	3.462	1.00	0.00	H
ATOM	554	2HD1	ILE A	39144.379	6.925	2.534	1.00	0.00	H
ATOM	555	3HD1	ILE A	39144.261	8.520	1.790	1.00	0.00	H
ATOM	556	N	GLY A	40149.446	10.073	-0.836	1.00	0.00	N
ATOM	557	CA	GLY A	40149.956	11.250	-1.512	1.00	0.00	C
ATOM	558	C	GLY A	40150.450	10.954	-2.913	1.00	0.00	C
ATOM	559	O	GLY A	40150.200	9.877	-3.455	1.00	0.00	O
ATOM	560	H	GLY A	40149.644	9.181	-1.192	1.00	0.00	H
ATOM	561	1HA	GLY A	40149.172	11.988	-1.567	1.00	0.00	H
ATOM	562	2HA	GLY A	40150.774	11.655	-0.934	1.00	0.00	H
ATOM	563	N	GLN A	41151.151	11.918	-3.503	1.00	0.00	N
ATOM	564	CA	GLN A	41151.682	11.767	-4.850	1.00	0.00	C
ATOM	565	C	GLN A	41153.178	12.077	-4.881	1.00	0.00	C
ATOM	566	O	GLN A	41153.587	13.211	-4.627	1.00	0.00	O
ATOM	567	CB	GLN A	41150.936	12.694	-5.810	1.00	0.00	C
ATOM	568	CG	GLN A	41149.424	12.612	-5.681	1.00	0.00	C
ATOM	569	CD	GLN A	41148.756	13.969	-5.779	1.00	0.00	C
ATOM	570	OE1	GLN A	41148.808	14.769	-4.846	1.00	0.00	O

ATOM	571	NE2	GLN A	41148.124	14.235	-6.916	1.00	0.00	N
ATOM	572	H	GLN A	41151.313	12.753	-3.019	1.00	0.00	H
ATOM	573	HA	GLN A	41151.527	10.744	-5.158	1.00	0.00	H
ATOM	574	1HB	GLN A	41151.236	13.711	-5.614	1.00	0.00	H
ATOM	575	2HB	GLN A	41151.205	12.436	-6.822	1.00	0.00	H
ATOM	576	1HG	GLN A	41149.040	11.982	-6.470	1.00	0.00	H
ATOM	577	2HG	GLN A	41149.179	12.175	-4.724	1.00	0.00	H
ATOM	578	1HE2	GLN A	41148.124	13.549	-7.616	1.00	0.00	H
ATOM	579	2HE2	GLN A	41147.685	15.106	-7.009	1.00	0.00	H
ATOM	580	N	PRO A	42154.020	11.075	-5.191	1.00	0.00	N
ATOM	581	CA	PRO A	42155.475	11.257	-5.248	1.00	0.00	C
ATOM	582	C	PRO A	42155.883	12.348	-6.233	1.00	0.00	C
ATOM	583	O	PRO A	42155.116	12.706	-7.128	1.00	0.00	O
ATOM	584	CB	PRO A	42155.994	9.893	-5.715	1.00	0.00	C
ATOM	585	CG	PRO A	42154.914	8.931	-5.358	1.00	0.00	C
ATOM	586	CD	PRO A	42153.628	9.690	-5.508	1.00	0.00	C
ATOM	587	HA	PRO A	42155.882	11.485	-4.274	1.00	0.00	H
ATOM	588	1HB	PRO A	42156.167	9.916	-6.781	1.00	0.00	H
ATOM	589	2HB	PRO A	42156.914	9.659	-5.200	1.00	0.00	H
ATOM	590	1HG	PRO A	42154.933	8.088	-6.033	1.00	0.00	H
ATOM	591	2HG	PRO A	42155.037	8.600	-4.338	1.00	0.00	H
ATOM	592	1HD	PRO A	42153.259	9.615	-6.520	1.00	0.00	H
ATOM	593	2HD	PRO A	42152.890	9.327	-4.806	1.00	0.00	H
ATOM	594	N	PRO A	43157.103	12.891	-6.082	1.00	0.00	N
ATOM	595	CA	PRO A	43157.611	13.946	-6.963	1.00	0.00	C
ATOM	596	C	PRO A	43157.953	13.424	-8.354	1.00	0.00	C
ATOM	597	O	PRO A	43159.092	13.042	-8.621	1.00	0.00	O

ATOM	598	CB	PRO A	43158.874	14.427	-6.250	1.00	0.00	C
ATOM	599	CG	PRO A	43159.327	13.252	-5.454	1.00	0.00	C
ATOM	600	CD	PRO A	43158.079	12.520	-5.041	1.00	0.00	C
ATOM	601	HA	PRO A	43156.908	14.763	-7.049	1.00	0.00	H
ATOM	602	1HB	PRO A	43159.613	14.718	-6.982	1.00	0.00	H
ATOM	603	2HB	PRO A	43158.636	15.266	-5.615	1.00	0.00	H
ATOM	604	1HG	PRO A	43159.951	12.615	-6.063	1.00	0.00	H
ATOM	605	2HG	PRO A	43159.871	13.587	-4.583	1.00	0.00	H
ATOM	606	1HD	PRO A	43158.252	11.454	-5.037	1.00	0.00	H
ATOM	607	2HD	PRO A	43157.751	12.855	-4.068	1.00	0.00	H
ATOM	608	N	GLY A	44156.960	13.410	-9.236	1.00	0.00	N
ATOM	609	CA	GLY A	44157.179	12.932	-10.588	1.00	0.00	C
ATOM	610	C	GLY A	44155.901	12.471	-11.257	1.00	0.00	C
ATOM	611	O	GLY A	44155.595	12.885	-12.375	1.00	0.00	O
ATOM	612	H	GLY A	44156.072	13.725	-8.968	1.00	0.00	H
ATOM	613	1HA	GLY A	44157.612	13.728	-11.173	1.00	0.00	H
ATOM	614	2HA	GLY A	44157.875	12.105	-10.556	1.00	0.00	H
ATOM	615	N	LEU A	45155.154	11.611	-10.574	1.00	0.00	N
ATOM	616	CA	LEU A	45153.902	11.095	-11.112	1.00	0.00	C
ATOM	617	C	LEU A	45152.735	11.431	-10.190	1.00	0.00	C
ATOM	618	O	LEU A	45152.647	10.916	-9.076	1.00	0.00	O
ATOM	619	CB	LEU A	45153.993	9.580	-11.306	1.00	0.00	C
ATOM	620	CG	LEU A	45154.530	8.806	-10.099	1.00	0.00	C
ATOM	621	CD1	LEU A	45154.083	7.352	-10.154	1.00	0.00	C
ATOM	622	CD2	LEU A	45156.049	8.900	-10.039	1.00	0.00	C
ATOM	623	H	LEU A	45155.450	11.319	-9.685	1.00	0.00	H
ATOM	624	HA	LEU A	45153.734	11.562	-12.070	1.00	0.00	H

ATOM	625	1HB	LEU A	45153.006	9.208 -11.537	1.00	0.00	H
ATOM	626	2HB	LEU A	45154.640	9.384 -12.147	1.00	0.00	H
ATOM	627	HG	LEU A	45154.131	9.243 -9.196	1.00	0.00	H
ATOM	628	1HD1	LEU A	45153.399	7.155 -9.341	1.00	0.00	H
ATOM	629	2HD1	LEU A	45154.943	6.705 -10.064	1.00	0.00	H
ATOM	630	3HD1	LEU A	45153.587	7.161 -11.094	1.00	0.00	H
ATOM	631	1HD2	LEU A	45156.481	7.939 -10.273	1.00	0.00	H
ATOM	632	2HD2	LEU A	45156.351	9.197 -9.044	1.00	0.00	H
ATOM	633	3HD2	LEU A	45156.395	9.634 -10.752	1.00	0.00	H
ATOM	634	N	ASN A	46151.839	12.293 -10.660	1.00	0.00	N
ATOM	635	CA	ASN A	46150.682	12.685 -9.866	1.00	0.00	C
ATOM	636	C	ASN A	46149.666	11.550 -9.807	1.00	0.00	C
ATOM	637	O	ASN A	46148.992	11.253 -10.792	1.00	0.00	O
ATOM	638	CB	ASN A	46150.034	13.937 -10.460	1.00	0.00	C
ATOM	639	CG	ASN A	46149.364	14.797 -9.406	1.00	0.00	C
ATOM	640	OD1	ASN A	46149.991	15.199 -8.426	1.00	0.00	O
ATOM	641	ND2	ASN A	46148.083	15.083 -9.604	1.00	0.00	N
ATOM	642	H	ASN A	46151.958	12.670 -11.556	1.00	0.00	H
ATOM	643	HA	ASN A	46151.023	12.904 -8.865	1.00	0.00	H
ATOM	644	1HB	ASN A	46150.792	14.529 -10.950	1.00	0.00	H
ATOM	645	2HB	ASN A	46149.290	13.640 -11.184	1.00	0.00	H
ATOM	646	1HD2	ASN A	46147.648	14.729 -10.408	1.00	0.00	H
ATOM	647	2HD2	ASN A	46147.625	15.639 -8.939	1.00	0.00	H
ATOM	648	N	GLU A	47149.563	10.920 -8.642	1.00	0.00	N
ATOM	649	CA	GLU A	47148.631	9.817 -8.447	1.00	0.00	C
ATOM	650	C	GLU A	47148.480	9.494 -6.965	1.00	0.00	C
ATOM	651	O	GLU A	47149.455	9.161 -6.291	1.00	0.00	O

ATOM	652	CB	GLU A	47149.104	8.574	-9.206	1.00	0.00	C
ATOM	653	CG	GLU A	47150.611	8.372	-9.178	1.00	0.00	C
ATOM	654	CD	GLU A	47151.090	7.413	-10.250	1.00	0.00	C
ATOM	655	OE1	GLU A	47151.384	6.246	-9.915	1.00	0.00	O
ATOM	656	OE2	GLU A	47151.171	7.829	-11.425	1.00	0.00	O
ATOM	657	H	GLU A	47150.130	11.205	-7.896	1.00	0.00	H
ATOM	658	HA	GLU A	47147.671	10.122	-8.836	1.00	0.00	H
ATOM	659	1HB	GLU A	47148.638	7.703	-8.771	1.00	0.00	H
ATOM	660	2HB	GLU A	47148.793	8.658	-10.237	1.00	0.00	H
ATOM	661	1HG	GLU A	47151.093	9.326	-9.329	1.00	0.00	H
ATOM	662	2HG	GLU A	47150.892	7.978	-8.212	1.00	0.00	H
ATOM	663	N	VAL A	48147.255	9.585	-6.461	1.00	0.00	N
ATOM	664	CA	VAL A	48146.988	9.294	-5.059	1.00	0.00	C
ATOM	665	C	VAL A	48147.302	7.836	-4.743	1.00	0.00	C
ATOM	666	O	VAL A	48146.505	6.943	-5.029	1.00	0.00	O
ATOM	667	CB	VAL A	48145.522	9.585	-4.689	1.00	0.00	C
ATOM	668	CG1	VAL A	48145.318	9.474	-3.186	1.00	0.00	C
ATOM	669	CG2	VAL A	48145.108	10.959	-5.192	1.00	0.00	C
ATOM	670	H	VAL A	48146.514	9.850	-7.045	1.00	0.00	H
ATOM	671	HA	VAL A	48147.625	9.928	-4.458	1.00	0.00	H
ATOM	672	HB	VAL A	48144.897	8.846	-5.169	1.00	0.00	H
ATOM	673	1HG1	VAL A	48145.394	8.440	-2.887	1.00	0.00	H
ATOM	674	2HG1	VAL A	48144.339	9.853	-2.928	1.00	0.00	H
ATOM	675	3HG1	VAL A	48146.073	10.054	-2.677	1.00	0.00	H
ATOM	676	1HG2	VAL A	48144.413	11.403	-4.495	1.00	0.00	H
ATOM	677	2HG2	VAL A	48144.636	10.861	-6.158	1.00	0.00	H
ATOM	678	3HG2	VAL A	48145.981	11.589	-5.280	1.00	0.00	H

ATOM	679	N	LEU A	49148.472	7.601	-4.156	1.00	0.00	N
ATOM	680	CA	LEU A	49148.892	6.250	-3.807	1.00	0.00	C
ATOM	681	C	LEU A	49148.847	6.042	-2.299	1.00	0.00	C
ATOM	682	O	LEU A	49149.562	6.707	-1.549	1.00	0.00	O
ATOM	683	CB	LEU A	49150.306	5.982	-4.327	1.00	0.00	C
ATOM	684	CG	LEU A	49150.455	6.034	-5.849	1.00	0.00	C
ATOM	685	CD1	LEU A	49151.876	6.420	-6.232	1.00	0.00	C
ATOM	686	CD2	LEU A	49150.080	4.696	-6.467	1.00	0.00	C
ATOM	687	H	LEU A	49149.066	8.354	-3.954	1.00	0.00	H
ATOM	688	HA	LEU A	49148.208	5.558	-4.274	1.00	0.00	H
ATOM	689	1HB	LEU A	49150.971	6.715	-3.896	1.00	0.00	H
ATOM	690	2HB	LEU A	49150.610	5.002	-3.992	1.00	0.00	H
ATOM	691	HG	LEU A	49149.787	6.786	-6.245	1.00	0.00	H
ATOM	692	1HD1	LEU A	49152.135	7.354	-5.757	1.00	0.00	H
ATOM	693	2HD1	LEU A	49151.942	6.530	-7.304	1.00	0.00	H
ATOM	694	3HD1	LEU A	49152.559	5.649	-5.906	1.00	0.00	H
ATOM	695	1HD2	LEU A	49149.173	4.330	-6.007	1.00	0.00	H
ATOM	696	2HD2	LEU A	49150.878	3.987	-6.303	1.00	0.00	H
ATOM	697	3HD2	LEU A	49149.920	4.821	-7.527	1.00	0.00	H
ATOM	698	N	ALA A	50148.001	5.118	-1.861	1.00	0.00	N
ATOM	699	CA	ALA A	50147.865	4.827	-0.441	1.00	0.00	C
ATOM	700	C	ALA A	50148.802	3.700	-0.019	1.00	0.00	C
ATOM	701	O	ALA A	50148.655	2.561	-0.462	1.00	0.00	O
ATOM	702	CB	ALA A	50146.423	4.471	-0.111	1.00	0.00	C
ATOM	703	H	ALA A	50147.456	4.621	-2.506	1.00	0.00	H
ATOM	704	HA	ALA A	50148.124	5.723	0.106	1.00	0.00	H
ATOM	705	1HB	ALA A	50146.405	3.738	0.682	1.00	0.00	H

ATOM	706	2HB	ALA A	50145.943	4.063	-0.988	1.00	0.00	H
ATOM	707	3HB	ALA A	50145.896	5.358	0.208	1.00	0.00	H
ATOM	708	N	GLY A	51149.764	4.024	0.838	1.00	0.00	N
ATOM	709	CA	GLY A	51150.710	3.029	1.304	1.00	0.00	C
ATOM	710	C	GLY A	51150.071	2.011	2.229	1.00	0.00	C
ATOM	711	O	GLY A	51149.790	2.310	3.390	1.00	0.00	O
ATOM	712	H	GLY A	51149.832	4.950	1.156	1.00	0.00	H
ATOM	713	1HA	GLY A	51151.122	2.512	0.450	1.00	0.00	H
ATOM	714	2HA	GLY A	51151.510	3.526	1.830	1.00	0.00	H
ATOM	715	N	LEU A	52149.841	0.808	1.715	1.00	0.00	N
ATOM	716	CA	LEU A	52149.231	-0.256	2.503	1.00	0.00	C
ATOM	717	C	LEU A	52150.296	-1.119	3.171	1.00	0.00	C
ATOM	718	O	LEU A	52151.352	-1.377	2.594	1.00	0.00	O
ATOM	719	CB	LEU A	52148.333	-1.124	1.619	1.00	0.00	C
ATOM	720	CG	LEU A	52147.158	-0.390	0.972	1.00	0.00	C
ATOM	721	CD1	LEU A	52146.581	-1.211	-0.171	1.00	0.00	C
ATOM	722	CD2	LEU A	52146.085	-0.087	2.006	1.00	0.00	C
ATOM	723	H	LEU A	52150.088	0.631	0.782	1.00	0.00	H
ATOM	724	HA	LEU A	52148.627	0.206	3.271	1.00	0.00	H
ATOM	725	1HB	LEU A	52148.942	-1.551	0.835	1.00	0.00	H
ATOM	726	2HB	LEU A	52147.938	-1.928	2.223	1.00	0.00	H
ATOM	727	HG	LEU A	52147.507	0.548	0.565	1.00	0.00	H
ATOM	728	1HD1	LEU A	52145.819	-1.874	0.211	1.00	0.00	H
ATOM	729	2HD1	LEU A	52147.367	-1.793	-0.630	1.00	0.00	H
ATOM	730	3HD1	LEU A	52146.147	-0.550	-0.906	1.00	0.00	H
ATOM	731	1HD2	LEU A	52145.114	-0.103	1.534	1.00	0.00	H
ATOM	732	2HD2	LEU A	52146.261	0.891	2.432	1.00	0.00	H

ATOM	733	3HD2	LEU A	52146.118	-0.831	2.789	1.00	0.00	H
ATOM	734	N	GLU A	53150.010	-1.565	4.390	1.00	0.00	N
ATOM	735	CA	GLU A	53150.943	-2.400	5.137	1.00	0.00	C
ATOM	736	C	GLU A	53150.426	-3.831	5.244	1.00	0.00	C
ATOM	737	O	GLU A	53149.452	-4.099	5.948	1.00	0.00	O
ATOM	738	CB	GLU A	53151.171	-1.823	6.535	1.00	0.00	C
ATOM	739	CG	GLU A	53152.170	-2.613	7.365	1.00	0.00	C
ATOM	740	CD	GLU A	53151.776	-2.697	8.827	1.00	0.00	C
ATOM	741	OE1	GLU A	53152.274	-3.607	9.524	1.00	0.00	O
ATOM	742	OE2	GLU A	53150.970	-1.856	9.275	1.00	0.00	O
ATOM	743	H	GLU A	53149.151	-1.326	4.797	1.00	0.00	H
ATOM	744	HA	GLU A	53151.882	-2.409	4.604	1.00	0.00	H
ATOM	745	1HB	GLU A	53151.536	-0.811	6.440	1.00	0.00	H
ATOM	746	2HB	GLU A	53150.229	-1.809	7.064	1.00	0.00	H
ATOM	747	1HG	GLU A	53152.236	-3.615	6.968	1.00	0.00	H
ATOM	748	2HG	GLU A	53153.135	-2.134	7.295	1.00	0.00	H
ATOM	749	N	LEU A	54151.083	-4.747	4.540	1.00	0.00	N
ATOM	750	CA	LEU A	54150.690	-6.152	4.556	1.00	0.00	C
ATOM	751	C	LEU A	54150.936	-6.770	5.929	1.00	0.00	C
ATOM	752	O	LEU A	54151.987	-6.563	6.535	1.00	0.00	O
ATOM	753	CB	LEU A	54151.460	-6.929	3.488	1.00	0.00	C
ATOM	754	CG	LEU A	54151.434	-6.309	2.090	1.00	0.00	C
ATOM	755	CD1	LEU A	54152.561	-6.869	1.236	1.00	0.00	C
ATOM	756	CD2	LEU A	54150.087	-6.552	1.425	1.00	0.00	C
ATOM	757	H	LEU A	54151.852	-4.472	3.997	1.00	0.00	H
ATOM	758	HA	LEU A	54149.635	-6.202	4.335	1.00	0.00	H
ATOM	759	1HB	LEU A	54152.490	-7.011	3.805	1.00	0.00	H

ATOM	760	2HB	LEU A	54151.042	-7.922	3.424	1.00	0.00	H
ATOM	761	HG	LEU A	54151.578	-5.241	2.175	1.00	0.00	H
ATOM	762	1HD1	LEU A	54153.480	-6.863	1.804	1.00	0.00	H
ATOM	763	2HD1	LEU A	54152.680	-6.260	0.352	1.00	0.00	H
ATOM	764	3HD1	LEU A	54152.324	-7.882	0.947	1.00	0.00	H
ATOM	765	1HD2	LEU A	54149.633	-7.438	1.847	1.00	0.00	H
ATOM	766	2HD2	LEU A	54150.229	-6.692	0.364	1.00	0.00	H
ATOM	767	3HD2	LEU A	54149.443	-5.702	1.595	1.00	0.00	H
ATOM	768	N	GLU A	55149.958	-7.528	6.413	1.00	0.00	N
ATOM	769	CA	GLU A	55150.067	-8.176	7.715	1.00	0.00	C
ATOM	770	C	GLU A	55151.139	-9.261	7.696	1.00	0.00	C
ATOM	771	O	GLU A	55151.836	-9.478	8.686	1.00	0.00	O
ATOM	772	CB	GLU A	55148.722	-8.779	8.123	1.00	0.00	C
ATOM	773	CG	GLU A	55147.657	-7.739	8.430	1.00	0.00	C
ATOM	774	CD	GLU A	55146.711	-7.512	7.268	1.00	0.00	C
ATOM	775	OE1	GLU A	55146.763	-6.420	6.663	1.00	0.00	O
ATOM	776	OE2	GLU A	55145.916	-8.426	6.962	1.00	0.00	O
ATOM	777	H	GLU A	55149.144	-7.655	5.884	1.00	0.00	H
ATOM	778	HA	GLU A	55150.347	-7.424	8.437	1.00	0.00	H
ATOM	779	1HB	GLU A	55148.361	-9.404	7.319	1.00	0.00	H
ATOM	780	2HB	GLU A	55148.864	-9.388	9.003	1.00	0.00	H
ATOM	781	1HG	GLU A	55147.083	-8.069	9.283	1.00	0.00	H
ATOM	782	2HG	GLU A	55148.143	-6.803	8.667	1.00	0.00	H
ATOM	783	N	ASP A	56151.263	-9.943	6.561	1.00	0.00	N
ATOM	784	CA	ASP A	56152.251	-11.006	6.412	1.00	0.00	C
ATOM	785	C	ASP A	56153.446	-10.528	5.596	1.00	0.00	C
ATOM	786	O	ASP A	56153.285	-9.897	4.551	1.00	0.00	O

ATOM	787	CB	ASP A	56151.617 -12.228	5.745	1.00	0.00	C
ATOM	788	CG	ASP A	56151.036 -13.201	6.753	1.00	0.00	C
ATOM	789	OD1	ASP A	56149.897 -13.665	6.541	1.00	0.00	O
ATOM	790	OD2	ASP A	56151.722 -13.498	7.754	1.00	0.00	O
ATOM	791	H	ASP A	56150.678 -9.724	5.806	1.00	0.00	H
ATOM	792	HA	ASP A	56152.591 -11.281	7.399	1.00	0.00	H
ATOM	793	1HB	ASP A	56150.825 -11.902	5.089	1.00	0.00	H
ATOM	794	2HB	ASP A	56152.370 -12.744	5.167	1.00	0.00	H
ATOM	795	N	GLU A	57154.646 -10.834	6.078	1.00	0.00	N
ATOM	796	CA	GLU A	57155.870 -10.436	5.392	1.00	0.00	C
ATOM	797	C	GLU A	57155.928 -11.034	3.991	1.00	0.00	C
ATOM	798	O	GLU A	57156.352 -12.176	3.810	1.00	0.00	O
ATOM	799	CB	GLU A	57157.095 -10.872	6.197	1.00	0.00	C
ATOM	800	CG	GLU A	57157.104 -10.349	7.624	1.00	0.00	C
ATOM	801	CD	GLU A	57156.564 -11.358	8.618	1.00	0.00	C
ATOM	802	OE1	GLU A	57156.945 -11.284	9.805	1.00	0.00	O
ATOM	803	OE2	GLU A	57155.759 -12.221	8.210	1.00	0.00	O
ATOM	804	H	GLU A	57154.710 -11.339	6.915	1.00	0.00	H
ATOM	805	HA	GLU A	57155.869 -9.359	5.311	1.00	0.00	H
ATOM	806	1HB	GLU A	57157.123 -11.951	6.233	1.00	0.00	H
ATOM	807	2HB	GLU A	57157.985 -10.514	5.700	1.00	0.00	H
ATOM	808	1HG	GLU A	57158.120 -10.105	7.898	1.00	0.00	H
ATOM	809	2HG	GLU A	57156.496 -9.458	7.671	1.00	0.00	H
ATOM	810	N	CYS A	58155.499 -10.256	3.003	1.00	0.00	N
ATOM	811	CA	CYS A	58155.502 -10.709	1.617	1.00	0.00	C
ATOM	812	C	CYS A	58156.853 -10.442	0.960	1.00	0.00	C
ATOM	813	O	CYS A	58157.328 -9.307	0.933	1.00	0.00	O

ATOM	814	CB	CYS A	58154.392	-10.013	0.828	1.00	0.00	C
ATOM	815	SG	CYS A	58154.271	-10.539	-0.897	1.00	0.00	S
ATOM	816	H	CYS A	58155.173	-9.355	3.210	1.00	0.00	H
ATOM	817	HA	CYS A	58155.319	-11.773	1.616	1.00	0.00	H
ATOM	818	1HB	CYS A	58153.443	-10.217	1.300	1.00	0.00	H
ATOM	819	2HB	CYS A	58154.570	-8.947	0.835	1.00	0.00	H
ATOM	820	HG	CYS A	58154.021	-11.467	-0.907	1.00	0.00	H
ATOM	821	N	ALA A	59157.466	-11.496	0.431	1.00	0.00	N
ATOM	822	CA	ALA A	59158.762	-11.375	-0.226	1.00	0.00	C
ATOM	823	C	ALA A	59158.686	-10.433	-1.423	1.00	0.00	C
ATOM	824	O	ALA A	59157.969	-10.698	-2.389	1.00	0.00	O
ATOM	825	CB	ALA A	59159.262	-12.744	-0.661	1.00	0.00	C
ATOM	826	H	ALA A	59157.037	-12.376	0.483	1.00	0.00	H
ATOM	827	HA	ALA A	59159.463	-10.974	0.491	1.00	0.00	H
ATOM	828	1HB	ALA A	59160.333	-12.710	-0.800	1.00	0.00	H
ATOM	829	2HB	ALA A	59158.788	-13.021	-1.592	1.00	0.00	H
ATOM	830	3HB	ALA A	59159.020	-13.474	0.097	1.00	0.00	H
ATOM	831	N	GLY A	60159.428	-9.334	-1.352	1.00	0.00	N
ATOM	832	CA	GLY A	60159.430	-8.369	-2.437	1.00	0.00	C
ATOM	833	C	GLY A	60158.687	-7.096	-2.082	1.00	0.00	C
ATOM	834	O	GLY A	60157.935	-6.561	-2.896	1.00	0.00	O
ATOM	835	H	GLY A	60159.979	-9.176	-0.558	1.00	0.00	H
ATOM	836	1HA	GLY A	60160.452	-8.119	-2.680	1.00	0.00	H
ATOM	837	2HA	GLY A	60158.963	-8.816	-3.302	1.00	0.00	H
ATOM	838	N	CYS A	61158.897	-6.610	-0.863	1.00	0.00	N
ATOM	839	CA	CYS A	61158.240	-5.392	-0.402	1.00	0.00	C
ATOM	840	C	CYS A	61159.222	-4.494	0.343	1.00	0.00	C

ATOM	841	O	CYS A	61160.342	-4.903	0.652	1.00	0.00	O
ATOM	842	CB	CYS A	61157.058	-5.738	0.505	1.00	0.00	C
ATOM	843	SG	CYS A	61155.845	-6.842	-0.254	1.00	0.00	S
ATOM	844	H	CYS A	61159.508	-7.081	-0.258	1.00	0.00	H
ATOM	845	HA	CYS A	61157.875	-4.863	-1.270	1.00	0.00	H
ATOM	846	1HB	CYS A	61157.427	-6.219	1.397	1.00	0.00	H
ATOM	847	2HB	CYS A	61156.547	-4.826	0.779	1.00	0.00	H
ATOM	848	HG	CYS A	61154.969	-6.511	-0.042	1.00	0.00	H
ATOM	849	N	THR A	62158.796	-3.268	0.629	1.00	0.00	N
ATOM	850	CA	THR A	62159.637	-2.311	1.338	1.00	0.00	C
ATOM	851	C	THR A	62159.197	-2.171	2.790	1.00	0.00	C
ATOM	852	O	THR A	62158.253	-2.829	3.230	1.00	0.00	O
ATOM	853	CB	THR A	62159.591	-0.949	0.645	1.00	0.00	C
ATOM	854	OG1	THR A	62158.350	-0.308	0.879	1.00	0.00	O
ATOM	855	CG2	THR A	62159.791	-1.031	-0.853	1.00	0.00	C
ATOM	856	H	THR A	62157.894	-3.000	0.357	1.00	0.00	H
ATOM	857	HA	THR A	62160.651	-2.682	1.316	1.00	0.00	H
ATOM	858	HB	THR A	62160.376	-0.325	1.050	1.00	0.00	H
ATOM	859	HG1	THR A	62157.639	-0.850	0.529	1.00	0.00	H
ATOM	860	1HG2	THR A	62158.928	-1.498	-1.305	1.00	0.00	H
ATOM	861	2HG2	THR A	62160.671	-1.618	-1.067	1.00	0.00	H
ATOM	862	3HG2	THR A	62159.913	-0.036	-1.254	1.00	0.00	H
ATOM	863	N	ASP A	63159.886	-1.310	3.533	1.00	0.00	N
ATOM	864	CA	ASP A	63159.564	-1.083	4.937	1.00	0.00	C
ATOM	865	C	ASP A	63158.915	0.283	5.133	1.00	0.00	C
ATOM	866	O	ASP A	63159.079	0.916	6.177	1.00	0.00	O
ATOM	867	CB	ASP A	63160.827	-1.189	5.794	1.00	0.00	C

ATOM	868	CG	ASP A	63161.869	-0.155	5.418	1.00	0.00	C
ATOM	869	OD1	ASP A	63162.279	0.624	6.304	1.00	0.00	O
ATOM	870	OD2	ASP A	63162.277	-0.124	4.237	1.00	0.00	O
ATOM	871	H	ASP A	63160.627	-0.815	3.126	1.00	0.00	H
ATOM	872	HA	ASP A	63158.866	-1.847	5.245	1.00	0.00	H
ATOM	873	1HB	ASP A	63160.564	-1.046	6.832	1.00	0.00	H
ATOM	874	2HB	ASP A	63161.258	-2.171	5.668	1.00	0.00	H
ATOM	875	N	GLY A	64158.180	0.734	4.122	1.00	0.00	N
ATOM	876	CA	GLY A	64157.517	2.023	4.204	1.00	0.00	C
ATOM	877	C	GLY A	64158.203	3.081	3.362	1.00	0.00	C
ATOM	878	O	GLY A	64158.146	4.269	3.680	1.00	0.00	O
ATOM	879	H	GLY A	64158.085	0.187	3.315	1.00	0.00	H
ATOM	880	1HA	GLY A	64156.498	1.913	3.865	1.00	0.00	H
ATOM	881	2HA	GLY A	64157.511	2.347	5.233	1.00	0.00	H
ATOM	882	N	THR A	65158.852	2.650	2.285	1.00	0.00	N
ATOM	883	CA	THR A	65159.552	3.569	1.395	1.00	0.00	C
ATOM	884	C	THR A	65159.130	3.350	-0.054	1.00	0.00	C
ATOM	885	O	THR A	65159.318	2.267	-0.609	1.00	0.00	O
ATOM	886	CB	THR A	65161.065	3.392	1.530	1.00	0.00	C
ATOM	887	OG1	THR A	65161.396	2.023	1.693	1.00	0.00	O
ATOM	888	CG2	THR A	65161.654	4.148	2.700	1.00	0.00	C
ATOM	889	H	THR A	65158.861	1.690	2.085	1.00	0.00	H
ATOM	890	HA	THR A	65159.290	4.576	1.685	1.00	0.00	H
ATOM	891	HB	THR A	65161.541	3.751	0.629	1.00	0.00	H
ATOM	892	HG1	THR A	65161.415	1.594	0.834	1.00	0.00	H
ATOM	893	1HG2	THR A	65160.857	4.539	3.315	1.00	0.00	H
ATOM	894	2HG2	THR A	65162.259	4.965	2.333	1.00	0.00	H

ATOM	895	3HG2	THR	A	65162.268	3.482	3.288	1.00	0.00	H
ATOM	896	N	PHE	A	66158.560	4.385	-0.663	1.00	0.00	N
ATOM	897	CA	PHE	A	66158.112	4.304	-2.048	1.00	0.00	C
ATOM	898	C	PHE	A	66159.029	5.108	-2.965	1.00	0.00	C
ATOM	899	O	PHE	A	66159.115	6.331	-2.857	1.00	0.00	O
ATOM	900	CB	PHE	A	66156.675	4.814	-2.172	1.00	0.00	C
ATOM	901	CG	PHE	A	66156.029	4.474	-3.484	1.00	0.00	C
ATOM	902	CD1	PHE	A	66155.625	5.475	-4.354	1.00	0.00	C
ATOM	903	CD2	PHE	A	66155.826	3.153	-3.849	1.00	0.00	C
ATOM	904	CE1	PHE	A	66155.032	5.165	-5.562	1.00	0.00	C
ATOM	905	CE2	PHE	A	66155.232	2.836	-5.057	1.00	0.00	C
ATOM	906	CZ	PHE	A	66154.834	3.843	-5.914	1.00	0.00	C
ATOM	907	H	PHE	A	66158.438	5.222	-0.168	1.00	0.00	H
ATOM	908	HA	PHE	A	66158.143	3.268	-2.347	1.00	0.00	H
ATOM	909	1HB	PHE	A	66156.077	4.380	-1.385	1.00	0.00	H
ATOM	910	2HB	PHE	A	66156.672	5.890	-2.068	1.00	0.00	H
ATOM	911	HD1	PHE	A	66155.780	6.509	-4.080	1.00	0.00	H
ATOM	912	HD2	PHE	A	66156.137	2.364	-3.179	1.00	0.00	H
ATOM	913	HE1	PHE	A	66154.721	5.954	-6.231	1.00	0.00	H
ATOM	914	HE2	PHE	A	66155.080	1.803	-5.329	1.00	0.00	H
ATOM	915	HZ	PHE	A	66154.371	3.598	-6.858	1.00	0.00	H
ATOM	916	N	ARG	A	67159.713	4.411	-3.867	1.00	0.00	N
ATOM	917	CA	ARG	A	67160.624	5.059	-4.803	1.00	0.00	C
ATOM	918	C	ARG	A	67161.735	5.794	-4.062	1.00	0.00	C
ATOM	919	O	ARG	A	67162.174	6.864	-4.482	1.00	0.00	O
ATOM	920	CB	ARG	A	67159.858	6.036	-5.698	1.00	0.00	C
ATOM	921	CG	ARG	A	67158.819	5.365	-6.581	1.00	0.00	C

ATOM	922	CD	ARG A	67158.307	6.310	-7.654	1.00	0.00	C
ATOM	923	NE	ARG A	67159.178	6.330	-8.827	1.00	0.00	N
ATOM	924	CZ	ARG A	67159.307	5.310	-9.672	1.00	0.00	C
ATOM	925	NH1	ARG A	67158.624	4.189	-9.480	1.00	0.00	N
ATOM	926	NH2	ARG A	67160.122	5.412	-10.714	1.00	0.00	N
ATOM	927	H	ARG A	67159.602	3.438	-3.904	1.00	0.00	H
ATOM	928	HA	ARG A	67161.066	4.291	-5.420	1.00	0.00	H
ATOM	929	1HB	ARG A	67159.357	6.759	-5.074	1.00	0.00	H
ATOM	930	2HB	ARG A	67160.564	6.549	-6.336	1.00	0.00	H
ATOM	931	1HG	ARG A	67159.266	4.504	-7.056	1.00	0.00	H
ATOM	932	2HG	ARG A	67157.989	5.048	-5.965	1.00	0.00	H
ATOM	933	1HD	ARG A	67157.321	5.990	-7.957	1.00	0.00	H
ATOM	934	2HD	ARG A	67158.250	7.306	-7.242	1.00	0.00	H
ATOM	935	HE	ARG A	67159.695	7.147	-8.993	1.00	0.00	H
ATOM	936	1HH1	ARG A	67158.008	4.106	-8.697	1.00	0.00	H
ATOM	937	2HH1	ARG A	67158.725	3.426	-10.119	1.00	0.00	H
ATOM	938	1HH2	ARG A	67160.639	6.254	-10.864	1.00	0.00	H
ATOM	939	2HH2	ARG A	67160.219	4.646	-11.348	1.00	0.00	H
ATOM	940	N	GLY A	68162.187	5.212	-2.955	1.00	0.00	N
ATOM	941	CA	GLY A	68163.243	5.827	-2.173	1.00	0.00	C
ATOM	942	C	GLY A	68162.762	7.037	-1.396	1.00	0.00	C
ATOM	943	O	GLY A	68163.536	7.953	-1.119	1.00	0.00	O
ATOM	944	H	GLY A	68161.800	4.359	-2.667	1.00	0.00	H
ATOM	945	1HA	GLY A	68163.632	5.098	-1.478	1.00	0.00	H
ATOM	946	2HA	GLY A	68164.037	6.132	-2.838	1.00	0.00	H
ATOM	947	N	THR A	69161.481	7.040	-1.044	1.00	0.00	N
ATOM	948	CA	THR A	69160.897	8.147	-0.295	1.00	0.00	C

ATOM	949	C	THR A	69160.046	7.632	0.861	1.00	0.00 C
ATOM	950	O	THR A	69158.867	7.323	0.687	1.00	0.00 O
ATOM	951	CB	THR A	69160.049	9.023	-1.217	1.00	0.00 C
ATOM	952	OG1	THR A	69160.737	9.293	-2.425	1.00	0.00 O
ATOM	953	CG2	THR A	69159.669	10.351	-0.598	1.00	0.00 C
ATOM	954	H	THR A	69160.914	6.280	-1.294	1.00	0.00 H
ATOM	955	HA	THR A	69161.706	8.738	0.105	1.00	0.00 H
ATOM	956	HB	THR A	69159.135	8.498	-1.457	1.00	0.00 H
ATOM	957	HG1	THR A	69161.578	9.711	-2.228	1.00	0.00 H
ATOM	958	1HG2	THR A	69160.045	11.156	-1.213	1.00	0.00 H
ATOM	959	2HG2	THR A	69160.099	10.423	0.390	1.00	0.00 H
ATOM	960	3HG2	THR A	69158.594	10.423	-0.530	1.00	0.00 H
ATOM	961	N	ARG A	70160.651	7.542	2.041	1.00	0.00 N
ATOM	962	CA	ARG A	70159.949	7.064	3.226	1.00	0.00 C
ATOM	963	C	ARG A	70158.808	8.005	3.600	1.00	0.00 C
ATOM	964	O	ARG A	70158.979	9.224	3.623	1.00	0.00 O
ATOM	965	CB	ARG A	70160.920	6.931	4.401	1.00	0.00 C
ATOM	966	CG	ARG A	70160.340	6.178	5.588	1.00	0.00 C
ATOM	967	CD	ARG A	70160.741	6.817	6.909	1.00	0.00 C
ATOM	968	NE	ARG A	70161.752	6.032	7.613	1.00	0.00 N
ATOM	969	CZ	ARG A	70163.055	6.085	7.344	1.00	0.00 C
ATOM	970	NH1	ARG A	70163.511	6.883	6.385	1.00	0.00 N
ATOM	971	NH2	ARG A	70163.905	5.337	8.033	1.00	0.00 N
ATOM	972	H	ARG A	70161.592	7.802	2.115	1.00	0.00 H
ATOM	973	HA	ARG A	70159.538	6.091	2.999	1.00	0.00 H
ATOM	974	1HB	ARG A	70161.803	6.407	4.066	1.00	0.00 H
ATOM	975	2HB	ARG A	70161.203	7.920	4.732	1.00	0.00 H

ATOM	976	1HG	ARG A	70159.263	6.180	5.511	1.00	0.00	H
ATOM	977	2HG	ARG A	70160.703	5.159	5.566	1.00	0.00	H
ATOM	978	1HD	ARG A	70161.136	7.802	6.714	1.00	0.00	H
ATOM	979	2HD	ARG A	70159.863	6.899	7.533	1.00	0.00	H
ATOM	980	HE	ARG A	70161.444	5.432	8.325	1.00	0.00	H
ATOM	981	1HH1	ARG A	70162.877	7.450	5.861	1.00	0.00	H
ATOM	982	2HH1	ARG A	70164.491	6.919	6.190	1.00	0.00	H
ATOM	983	1HH2	ARG A	70163.567	4.734	8.756	1.00	0.00	H
ATOM	984	2HH2	ARG A	70164.884	5.377	7.832	1.00	0.00	H
ATOM	985	N	TYR A	71157.646	7.431	3.890	1.00	0.00	N
ATOM	986	CA	TYR A	71156.476	8.218	4.264	1.00	0.00	C
ATOM	987	C	TYR A	71156.055	7.920	5.700	1.00	0.00	C
ATOM	988	O	TYR A	71155.648	8.817	6.437	1.00	0.00	O
ATOM	989	CB	TYR A	71155.316	7.932	3.309	1.00	0.00	C
ATOM	990	CG	TYR A	71155.479	8.569	1.948	1.00	0.00	C
ATOM	991	CD1	TYR A	71155.397	7.809	0.788	1.00	0.00	C
ATOM	992	CD2	TYR A	71155.717	9.933	1.823	1.00	0.00	C
ATOM	993	CE1	TYR A	71155.547	8.389	-0.457	1.00	0.00	C
ATOM	994	CE2	TYR A	71155.867	10.520	0.581	1.00	0.00	C
ATOM	995	CZ	TYR A	71155.781	9.745	-0.555	1.00	0.00	C
ATOM	996	OH	TYR A	71155.931	10.325	-1.793	1.00	0.00	O
ATOM	997	H	TYR A	71157.572	6.454	3.855	1.00	0.00	H
ATOM	998	HA	TYR A	71156.742	9.262	4.190	1.00	0.00	H
ATOM	999	1HB	TYR A	71155.232	6.864	3.166	1.00	0.00	H
ATOM	1000	2HB	TYR A	71154.401	8.305	3.744	1.00	0.00	H
ATOM	1001	HD1	TYR A	71155.213	6.748	0.869	1.00	0.00	H
ATOM	1002	HD2	TYR A	71155.785	10.538	2.716	1.00	0.00	H

ATOM	1003	HE1 TYR A	71155.480	7.781	-1.347	1.00	0.00	H
ATOM	1004	HE2 TYR A	71156.051	11.581	0.506	1.00	0.00	H
ATOM	1005	HH TYR A	71155.460	11.161	-1.814	1.00	0.00	H
ATOM	1006	N PHE A	72156.155	6.653	6.089	1.00	0.00	N
ATOM	1007	CA PHE A	72155.784	6.235	7.436	1.00	0.00	C
ATOM	1008	C PHE A	72156.783	5.220	7.984	1.00	0.00	C
ATOM	1009	O PHE A	72157.758	4.872	7.320	1.00	0.00	O
ATOM	1010	CB PHE A	72154.378	5.635	7.437	1.00	0.00	C
ATOM	1011	CG PHE A	72154.144	4.648	6.328	1.00	0.00	C
ATOM	1012	CD1 PHE A	72153.812	5.083	5.055	1.00	0.00	C
ATOM	1013	CD2 PHE A	72154.258	3.287	6.559	1.00	0.00	C
ATOM	1014	CE1 PHE A	72153.598	4.179	4.033	1.00	0.00	C
ATOM	1015	CE2 PHE A	72154.045	2.378	5.541	1.00	0.00	C
ATOM	1016	CZ PHE A	72153.714	2.824	4.276	1.00	0.00	C
ATOM	1017	H PHE A	72156.486	5.982	5.455	1.00	0.00	H
ATOM	1018	HA PHE A	72155.795	7.110	8.068	1.00	0.00	H
ATOM	1019	1HB PHE A	72154.212	5.125	8.375	1.00	0.00	H
ATOM	1020	2HB PHE A	72153.654	6.431	7.333	1.00	0.00	H
ATOM	1021	HD1 PHE A	72153.721	6.142	4.864	1.00	0.00	H
ATOM	1022	HD2 PHE A	72154.517	2.937	7.548	1.00	0.00	H
ATOM	1023	HE1 PHE A	72153.338	4.530	3.045	1.00	0.00	H
ATOM	1024	HE2 PHE A	72154.137	1.319	5.734	1.00	0.00	H
ATOM	1025	HZ PHE A	72153.547	2.115	3.479	1.00	0.00	H
ATOM	1026	N THR A	73156.533	4.750	9.202	1.00	0.00	N
ATOM	1027	CA THR A	73157.409	3.775	9.840	1.00	0.00	C
ATOM	1028	C THR A	73156.665	2.470	10.108	1.00	0.00	C
ATOM	1029	O THR A	73155.816	2.398	10.997	1.00	0.00	O

ATOM	1030	CB	THR A	73157.964	4.337	11.151	1.00	0.00	C
ATOM	1031	OG1	THR A	73157.040	5.231	11.743	1.00	0.00	O
ATOM	1032	CG2	THR A	73159.273	5.077	10.977	1.00	0.00	C
ATOM	1033	H	THR A	73155.738	5.066	9.682	1.00	0.00	H
ATOM	1034	HA	THR A	73158.230	3.576	9.168	1.00	0.00	H
ATOM	1035	HB	THR A	73158.133	3.520	11.837	1.00	0.00	H
ATOM	1036	HG1	THR A	73157.405	5.572	12.564	1.00	0.00	H
ATOM	1037	1HG2	THR A	73159.290	5.554	10.008	1.00	0.00	H
ATOM	1038	2HG2	THR A	73160.093	4.377	11.048	1.00	0.00	H
ATOM	1039	3HG2	THR A	73159.369	5.824	11.749	1.00	0.00	H
ATOM	1040	N	CYS A	74156.991	1.440	9.335	1.00	0.00	N
ATOM	1041	CA	CYS A	74156.354	0.138	9.488	1.00	0.00	C
ATOM	1042	C	CYS A	74157.390	-0.982	9.465	1.00	0.00	C
ATOM	1043	O	CYS A	74158.591	-0.728	9.368	1.00	0.00	O
ATOM	1044	CB	CYS A	74155.323	-0.083	8.379	1.00	0.00	C
ATOM	1045	SG	CYS A	74153.706	0.652	8.718	1.00	0.00	S
ATOM	1046	H	CYS A	74157.676	1.559	8.643	1.00	0.00	H
ATOM	1047	HA	CYS A	74155.850	0.125	10.442	1.00	0.00	H
ATOM	1048	1HB	CYS A	74155.694	0.350	7.462	1.00	0.00	H
ATOM	1049	2HB	CYS A	74155.180	-1.144	8.237	1.00	0.00	H
ATOM	1050	HG	CYS A	74153.749	1.078	9.577	1.00	0.00	H
ATOM	1051	N	ALA A	75156.918	-2.220	9.553	1.00	0.00	N
ATOM	1052	CA	ALA A	75157.803	-3.378	9.542	1.00	0.00	C
ATOM	1053	C	ALA A	75158.397	-3.602	8.156	1.00	0.00	C
ATOM	1054	O	ALA A	75157.882	-3.095	7.160	1.00	0.00	O
ATOM	1055	CB	ALA A	75157.053	-4.619	10.004	1.00	0.00	C
ATOM	1056	H	ALA A	75155.951	-2.359	9.628	1.00	0.00	H

ATOM	1057	HA	ALA A	75158.605	-3.190	10.241	1.00	0.00	H
ATOM	1058	1HB	ALA A	75157.153	-4.723	11.074	1.00	0.00	H
ATOM	1059	2HB	ALA A	75157.466	-5.490	9.518	1.00	0.00	H
ATOM	1060	3HB	ALA A	75156.008	-4.525	9.747	1.00	0.00	H
ATOM	1061	N	LEU A	76159.484	-4.366	8.100	1.00	0.00	N
ATOM	1062	CA	LEU A	76160.148	-4.658	6.836	1.00	0.00	C
ATOM	1063	C	LEU A	76159.378	-5.712	6.046	1.00	0.00	C
ATOM	1064	O	LEU A	76158.795	-6.631	6.623	1.00	0.00	O
ATOM	1065	CB	LEU A	76161.579	-5.137	7.087	1.00	0.00	C
ATOM	1066	CG	LEU A	76162.627	-4.025	7.176	1.00	0.00	C
ATOM	1067	CD1	LEU A	76163.728	-4.406	8.153	1.00	0.00	C
ATOM	1068	CD2	LEU A	76163.208	-3.731	5.802	1.00	0.00	C
ATOM	1069	H	LEU A	76159.846	-4.742	8.929	1.00	0.00	H
ATOM	1070	HA	LEU A	76160.179	-3.745	6.259	1.00	0.00	H
ATOM	1071	1HB	LEU A	76161.593	-5.692	8.013	1.00	0.00	H
ATOM	1072	2HB	LEU A	76161.861	-5.800	6.284	1.00	0.00	H
ATOM	1073	HG	LEU A	76162.155	-3.124	7.541	1.00	0.00	H
ATOM	1074	1HD1	LEU A	76164.661	-3.965	7.834	1.00	0.00	H
ATOM	1075	2HD1	LEU A	76163.828	-5.481	8.180	1.00	0.00	H
ATOM	1076	3HD1	LEU A	76163.476	-4.044	9.139	1.00	0.00	H
ATOM	1077	1HD2	LEU A	76164.135	-4.272	5.681	1.00	0.00	H
ATOM	1078	2HD2	LEU A	76163.395	-2.671	5.708	1.00	0.00	H
ATOM	1079	3HD2	LEU A	76162.508	-4.041	5.040	1.00	0.00	H
ATOM	1080	N	LYS A	77159.379	-5.572	4.724	1.00	0.00	N
ATOM	1081	CA	LYS A	77158.681	-6.513	3.857	1.00	0.00	C
ATOM	1082	C	LYS A	77157.188	-6.536	4.170	1.00	0.00	C
ATOM	1083	O	LYS A	77156.545	-7.584	4.103	1.00	0.00	O

ATOM	1084	CB	LYS A	77159.268	-7.917	4.011	1.00	0.00	C
ATOM	1085	CG	LYS A	77160.742	-8.002	3.648	1.00	0.00	C
ATOM	1086	CD	LYS A	77160.936	-8.190	2.152	1.00	0.00	C
ATOM	1087	CE	LYS A	77162.179	-7.470	1.656	1.00	0.00	C
ATOM	1088	NZ	LYS A	77162.702	-8.067	0.396	1.00	0.00	N
ATOM	1089	H	LYS A	77159.861	-4.819	4.324	1.00	0.00	H
ATOM	1090	HA	LYS A	77158.816	-6.185	2.837	1.00	0.00	H
ATOM	1091	1HB	LYS A	77159.154	-8.231	5.038	1.00	0.00	H
ATOM	1092	2HB	LYS A	77158.722	-8.595	3.373	1.00	0.00	H
ATOM	1093	1HG	LYS A	77161.232	-7.089	3.952	1.00	0.00	H
ATOM	1094	2HG	LYS A	77161.183	-8.840	4.168	1.00	0.00	H
ATOM	1095	1HD	LYS A	77161.036	-9.245	1.942	1.00	0.00	H
ATOM	1096	2HD	LYS A	77160.073	-7.799	1.634	1.00	0.00	H
ATOM	1097	1HE	LYS A	77161.932	-6.434	1.478	1.00	0.00	H
ATOM	1098	2HE	LYS A	77162.943	-7.531	2.418	1.00	0.00	H
ATOM	1099	1HZ	LYS A	77162.608	-9.102	0.425	1.00	0.00	H
ATOM	1100	2HZ	LYS A	77163.706	-7.824	0.274	1.00	0.00	H
ATOM	1101	3HZ	LYS A	77162.168	-7.703	-0.419	1.00	0.00	H
ATOM	1102	N	LYS A	78156.643	-5.373	4.513	1.00	0.00	N
ATOM	1103	CA	LYS A	78155.224	-5.259	4.837	1.00	0.00	C
ATOM	1104	C	LYS A	78154.686	-3.886	4.449	1.00	0.00	C
ATOM	1105	O	LYS A	78153.863	-3.308	5.158	1.00	0.00	O
ATOM	1106	CB	LYS A	78155.000	-5.505	6.330	1.00	0.00	C
ATOM	1107	CG	LYS A	78155.513	-6.854	6.809	1.00	0.00	C
ATOM	1108	CD	LYS A	78155.303	-7.030	8.304	1.00	0.00	C
ATOM	1109	CE	LYS A	78154.065	-7.862	8.598	1.00	0.00	C
ATOM	1110	NZ	LYS A	78153.334	-7.367	9.797	1.00	0.00	N

ATOM	1111	H	LYS A	78157.206	-4.572	4.548	1.00	0.00	H
ATOM	1112	HA	LYS A	78154.695	-6.012	4.274	1.00	0.00	H
ATOM	1113	1HB	LYS A	78155.507	-4.732	6.890	1.00	0.00	H
ATOM	1114	2HB	LYS A	78153.942	-5.453	6.537	1.00	0.00	H
ATOM	1115	1HG	LYS A	78154.984	-7.636	6.285	1.00	0.00	H
ATOM	1116	2HG	LYS A	78156.570	-6.924	6.592	1.00	0.00	H
ATOM	1117	1HD	LYS A	78156.165	-7.526	8.723	1.00	0.00	H
ATOM	1118	2HD	LYS A	78155.188	-6.057	8.759	1.00	0.00	H
ATOM	1119	1HE	LYS A	78153.407	-7.820	7.743	1.00	0.00	H
ATOM	1120	2HE	LYS A	78154.367	-8.886	8.768	1.00	0.00	H
ATOM	1121	1HZ	LYS A	78152.990	-6.399	9.630	1.00	0.00	H
ATOM	1122	2HZ	LYS A	78153.965	-7.361	10.623	1.00	0.00	H
ATOM	1123	3HZ	LYS A	78152.521	-7.982	9.999	1.00	0.00	H
ATOM	1124	N	ALA A	79155.156	-3.369	3.318	1.00	0.00	N
ATOM	1125	CA	ALA A	79154.722	-2.064	2.836	1.00	0.00	C
ATOM	1126	C	ALA A	79154.543	-2.070	1.322	1.00	0.00	C
ATOM	1127	O	ALA A	79155.517	-1.992	0.571	1.00	0.00	O
ATOM	1128	CB	ALA A	79155.720	-0.992	3.247	1.00	0.00	C
ATOM	1129	H	ALA A	79155.811	-3.879	2.796	1.00	0.00	H
ATOM	1130	HA	ALA A	79153.774	-1.837	3.299	1.00	0.00	H
ATOM	1131	1HB	ALA A	79155.219	-0.036	3.300	1.00	0.00	H
ATOM	1132	2HB	ALA A	79156.515	-0.941	2.518	1.00	0.00	H
ATOM	1133	3HB	ALA A	79156.133	-1.237	4.214	1.00	0.00	H
ATOM	1134	N	LEU A	80153.294	-2.162	0.878	1.00	0.00	N
ATOM	1135	CA	LEU A	80152.988	-2.178	-0.548	1.00	0.00	C
ATOM	1136	C	LEU A	80152.143	-0.968	-0.936	1.00	0.00	C
ATOM	1137	O	LEU A	80150.992	-0.842	-0.519	1.00	0.00	O

ATOM	1138	CB	LEU A	80152.252	-3.467	-0.919	1.00	0.00	C
ATOM	1139	CG	LEU A	80151.835	-3.574	-2.387	1.00	0.00	C
ATOM	1140	CD1	LEU A	80153.048	-3.819	-3.270	1.00	0.00	C
ATOM	1141	CD2	LEU A	80150.809	-4.683	-2.568	1.00	0.00	C
ATOM	1142	H	LEU A	80152.561	-2.220	1.525	1.00	0.00	H
ATOM	1143	HA	LEU A	80153.922	-2.138	-1.088	1.00	0.00	H
ATOM	1144	1HB	LEU A	80152.896	-4.303	-0.687	1.00	0.00	H
ATOM	1145	2HB	LEU A	80151.364	-3.538	-0.309	1.00	0.00	H
ATOM	1146	HG	LEU A	80151.381	-2.644	-2.693	1.00	0.00	H
ATOM	1147	1HD1	LEU A	80153.457	-2.872	-3.590	1.00	0.00	H
ATOM	1148	2HD1	LEU A	80152.753	-4.394	-4.136	1.00	0.00	H
ATOM	1149	3HD1	LEU A	80153.796	-4.364	-2.713	1.00	0.00	H
ATOM	1150	1HD2	LEU A	80150.935	-5.134	-3.541	1.00	0.00	H
ATOM	1151	2HD2	LEU A	80149.814	-4.270	-2.488	1.00	0.00	H
ATOM	1152	3HD2	LEU A	80150.950	-5.432	-1.803	1.00	0.00	H
ATOM	1153	N	PHE A	81152.723	-0.082	-1.739	1.00	0.00	N
ATOM	1154	CA	PHE A	81152.024	1.117	-2.185	1.00	0.00	C
ATOM	1155	C	PHE A	81151.158	0.819	-3.405	1.00	0.00	C
ATOM	1156	O	PHE A	81151.569	0.089	-4.307	1.00	0.00	O
ATOM	1157	CB	PHE A	81153.027	2.224	-2.515	1.00	0.00	C
ATOM	1158	CG	PHE A	81153.688	2.816	-1.303	1.00	0.00	C
ATOM	1159	CD1	PHE A	81153.308	4.060	-0.828	1.00	0.00	C
ATOM	1160	CD2	PHE A	81154.690	2.126	-0.639	1.00	0.00	C
ATOM	1161	CE1	PHE A	81153.915	4.607	0.287	1.00	0.00	C
ATOM	1162	CE2	PHE A	81155.300	2.668	0.477	1.00	0.00	C
ATOM	1163	CZ	PHE A	81154.912	3.909	0.941	1.00	0.00	C
ATOM	1164	H	PHE A	81153.643	-0.239	-2.039	1.00	0.00	H

ATOM	1165	HA	PHE A	81151.388	1.449	-1.379	1.00	0.00	H
ATOM	1166	1HB	PHE A	81153.800	1.822	-3.151	1.00	0.00	H
ATOM	1167	2HB	PHE A	81152.515	3.020	-3.037	1.00	0.00	H
ATOM	1168	HD1	PHE A	81152.527	4.606	-1.338	1.00	0.00	H
ATOM	1169	HD2	PHE A	81154.995	1.156	-1.000	1.00	0.00	H
ATOM	1170	HE1	PHE A	81153.609	5.579	0.647	1.00	0.00	H
ATOM	1171	HE2	PHE A	81156.080	2.121	0.985	1.00	0.00	H
ATOM	1172	HZ	PHE A	81155.388	4.335	1.812	1.00	0.00	H
ATOM	1173	N	VAL A	82149.959	1.389	-3.427	1.00	0.00	N
ATOM	1174	CA	VAL A	82149.035	1.184	-4.535	1.00	0.00	C
ATOM	1175	C	VAL A	82148.156	2.412	-4.753	1.00	0.00	C
ATOM	1176	O	VAL A	82148.101	3.306	-3.909	1.00	0.00	O
ATOM	1177	CB	VAL A	82148.134	-0.041	-4.297	1.00	0.00	C
ATOM	1178	CG1	VAL A	82148.953	-1.322	-4.333	1.00	0.00	C
ATOM	1179	CG2	VAL A	82147.392	0.090	-2.976	1.00	0.00	C
ATOM	1180	H	VAL A	82149.687	1.962	-2.677	1.00	0.00	H
ATOM	1181	HA	VAL A	82149.619	1.009	-5.427	1.00	0.00	H
ATOM	1182	HB	VAL A	82147.404	-0.087	-5.093	1.00	0.00	H
ATOM	1183	1HG1	VAL A	82148.303	-2.170	-4.174	1.00	0.00	H
ATOM	1184	2HG1	VAL A	82149.702	-1.292	-3.555	1.00	0.00	H
ATOM	1185	3HG1	VAL A	82149.436	-1.415	-5.295	1.00	0.00	H
ATOM	1186	1HG2	VAL A	82147.988	-0.338	-2.185	1.00	0.00	H
ATOM	1187	2HG2	VAL A	82146.449	-0.432	-3.039	1.00	0.00	H
ATOM	1188	3HG2	VAL A	82147.212	1.134	-2.767	1.00	0.00	H
ATOM	1189	N	LYS A	83147.471	2.448	-5.891	1.00	0.00	N
ATOM	1190	CA	LYS A	83146.594	3.565	-6.221	1.00	0.00	C
ATOM	1191	C	LYS A	83145.381	3.596	-5.299	1.00	0.00	C

ATOM	1192	O	LYS A	83144.624	2.629	-5.217	1.00	0.00	O
ATOM	1193	CB	LYS A	83146.139	3.470	-7.679	1.00	0.00	C
ATOM	1194	CG	LYS A	83147.278	3.584	-8.680	1.00	0.00	C
ATOM	1195	CD	LYS A	83146.839	3.163	-10.073	1.00	0.00	C
ATOM	1196	CE	LYS A	83147.457	4.048	-11.143	1.00	0.00	C
ATOM	1197	NZ	LYS A	83147.818	3.274	-12.363	1.00	0.00	N
ATOM	1198	H	LYS A	83147.557	1.704	-6.524	1.00	0.00	H
ATOM	1199	HA	LYS A	83147.155	4.478	-6.087	1.00	0.00	H
ATOM	1200	1HB	LYS A	83145.649	2.520	-7.830	1.00	0.00	H
ATOM	1201	2HB	LYS A	83145.434	4.265	-7.876	1.00	0.00	H
ATOM	1202	1HG	LYS A	83147.612	4.610	-8.714	1.00	0.00	H
ATOM	1203	2HG	LYS A	83148.090	2.948	-8.359	1.00	0.00	H
ATOM	1204	1HD	LYS A	83147.145	2.142	-10.243	1.00	0.00	H
ATOM	1205	2HD	LYS A	83145.763	3.233	-10.137	1.00	0.00	H
ATOM	1206	1HE	LYS A	83146.748	4.815	-11.411	1.00	0.00	H
ATOM	1207	2HE	LYS A	83148.348	4.506	-10.741	1.00	0.00	H
ATOM	1208	1HZ	LYS A	83148.624	3.721	-12.844	1.00	0.00	H
ATOM	1209	2HZ	LYS A	83147.011	3.243	-13.018	1.00	0.00	H
ATOM	1210	3HZ	LYS A	83148.078	2.300	-12.105	1.00	0.00	H
ATOM	1211	N	LEU A	84145.203	4.715	-4.606	1.00	0.00	N
ATOM	1212	CA	LEU A	84144.082	4.880	-3.689	1.00	0.00	C
ATOM	1213	C	LEU A	84142.752	4.717	-4.418	1.00	0.00	C
ATOM	1214	O	LEU A	84141.808	4.136	-3.885	1.00	0.00	O
ATOM	1215	CB	LEU A	84144.149	6.254	-3.018	1.00	0.00	C
ATOM	1216	CG	LEU A	84142.966	6.592	-2.109	1.00	0.00	C
ATOM	1217	CD1	LEU A	84143.161	5.981	-0.730	1.00	0.00	C
ATOM	1218	CD2	LEU A	84142.791	8.100	-2.004	1.00	0.00	C

ATOM	1219	H	LEU A	84145.841	5.450	-4.716	1.00	0.00	H
ATOM	1220	HA	LEU A	84144.160	4.115	-2.931	1.00	0.00	H
ATOM	1221	1HB	LEU A	84145.054	6.300	-2.429	1.00	0.00	H
ATOM	1222	2HB	LEU A	84144.206	7.004	-3.793	1.00	0.00	H
ATOM	1223	HG	LEU A	84142.063	6.179	-2.533	1.00	0.00	H
ATOM	1224	1HD1	LEU A	84142.445	6.406	-0.043	1.00	0.00	H
ATOM	1225	2HD1	LEU A	84144.162	6.188	-0.382	1.00	0.00	H
ATOM	1226	3HD1	LEU A	84143.014	4.912	-0.787	1.00	0.00	H
ATOM	1227	1HD2	LEU A	84142.772	8.530	-2.995	1.00	0.00	H
ATOM	1228	2HD2	LEU A	84143.614	8.521	-1.445	1.00	0.00	H
ATOM	1229	3HD2	LEU A	84141.863	8.321	-1.498	1.00	0.00	H
ATOM	1230	N	LYS A	85142.688	5.234	-5.641	1.00	0.00	N
ATOM	1231	CA	LYS A	85141.474	5.146	-6.444	1.00	0.00	C
ATOM	1232	C	LYS A	85141.139	3.693	-6.773	1.00	0.00	C
ATOM	1233	O	LYS A	85139.984	3.356	-7.028	1.00	0.00	O
ATOM	1234	CB	LYS A	85141.633	5.950	-7.735	1.00	0.00	C
ATOM	1235	CG	LYS A	85142.797	5.492	-8.599	1.00	0.00	C
ATOM	1236	CD	LYS A	85143.178	6.548	-9.624	1.00	0.00	C
ATOM	1237	CE	LYS A	85144.685	6.620	-9.814	1.00	0.00	C
ATOM	1238	NZ	LYS A	85145.077	7.728	-10.729	1.00	0.00	N
ATOM	1239	H	LYS A	85143.474	5.685	-6.012	1.00	0.00	H
ATOM	1240	HA	LYS A	85140.664	5.566	-5.867	1.00	0.00	H
ATOM	1241	1HB	LYS A	85140.726	5.860	-8.316	1.00	0.00	H
ATOM	1242	2HB	LYS A	85141.786	6.989	-7.483	1.00	0.00	H
ATOM	1243	1HG	LYS A	85143.648	5.297	-7.964	1.00	0.00	H
ATOM	1244	2HG	LYS A	85142.515	4.586	-9.115	1.00	0.00	H
ATOM	1245	1HD	LYS A	85142.718	6.301	-10.569	1.00	0.00	H

ATOM	1246	2HD	LYS A	85142.820	7.509	-9.287	1.00	0.00	H
ATOM	1247	1HE	LYS A	85145.149	6.779	-8.852	1.00	0.00	H
ATOM	1248	2HE	LYS A	85145.028	5.683	-10.228	1.00	0.00	H
ATOM	1249	1HZ	LYS A	85146.064	8.004	-10.553	1.00	0.00	H
ATOM	1250	2HZ	LYS A	85144.465	8.553	-10.574	1.00	0.00	H
ATOM	1251	3HZ	LYS A	85144.984	7.423	-11.719	1.00	0.00	H
ATOM	1252	N	SER A	86142.158	2.837	-6.765	1.00	0.00	N
ATOM	1253	CA	SER A	86141.968	1.423	-7.064	1.00	0.00	C
ATOM	1254	C	SER A	86141.945	0.594	-5.782	1.00	0.00	C
ATOM	1255	O	SER A	86142.403	-0.548	-5.762	1.00	0.00	O
ATOM	1256	CB	SER A	86143.077	0.922	-7.990	1.00	0.00	C
ATOM	1257	OG	SER A	86143.061	1.613	-9.227	1.00	0.00	O
ATOM	1258	H	SER A	86143.057	3.164	-6.555	1.00	0.00	H
ATOM	1259	HA	SER A	86141.017	1.314	-7.563	1.00	0.00	H
ATOM	1260	1HB	SER A	86144.035	1.078	-7.518	1.00	0.00	H
ATOM	1261	2HB	SER A	86142.936	-0.133	-8.178	1.00	0.00	H
ATOM	1262	HG	SER A	86142.156	1.684	-9.542	1.00	0.00	H
ATOM	1263	N	CYS A	87141.410	1.178	-4.715	1.00	0.00	N
ATOM	1264	CA	CYS A	87141.328	0.494	-3.430	1.00	0.00	C
ATOM	1265	C	CYS A	87139.877	0.215	-3.053	1.00	0.00	C
ATOM	1266	O	CYS A	87138.984	1.005	-3.360	1.00	0.00	O
ATOM	1267	CB	CYS A	87141.999	1.331	-2.340	1.00	0.00	C
ATOM	1268	SG	CYS A	87143.804	1.366	-2.440	1.00	0.00	S
ATOM	1269	H	CYS A	87141.062	2.090	-4.794	1.00	0.00	H
ATOM	1270	HA	CYS A	87141.851	-0.446	-3.521	1.00	0.00	H
ATOM	1271	1HB	CYS A	87141.648	2.350	-2.411	1.00	0.00	H
ATOM	1272	2HB	CYS A	87141.730	0.931	-1.372	1.00	0.00	H

ATOM	1273	HG	CYS A	87144.150	1.419	-1.547	1.00	0.00	H
ATOM	1274	N	ARG A	88139.650	-0.912	-2.386	1.00	0.00	N
ATOM	1275	CA	ARG A	88138.306	-1.294	-1.967	1.00	0.00	C
ATOM	1276	C	ARG A	88138.213	-1.371	-0.443	1.00	0.00	C
ATOM	1277	O	ARG A	88139.151	-1.815	0.220	1.00	0.00	O
ATOM	1278	CB	ARG A	88137.922	-2.641	-2.582	1.00	0.00	C
ATOM	1279	CG	ARG A	88137.196	-2.517	-3.912	1.00	0.00	C
ATOM	1280	CD	ARG A	88135.691	-2.650	-3.741	1.00	0.00	C
ATOM	1281	NE	ARG A	88135.014	-2.887	-5.014	1.00	0.00	N
ATOM	1282	CZ	ARG A	88135.048	-4.047	-5.667	1.00	0.00	C
ATOM	1283	NH1	ARG A	88135.722	-5.076	-5.171	1.00	0.00	N
ATOM	1284	NH2	ARG A	88134.404	-4.178	-6.818	1.00	0.00	N
ATOM	1285	H	ARG A	88140.403	-1.499	-2.170	1.00	0.00	H
ATOM	1286	HA	ARG A	88137.622	-0.538	-2.321	1.00	0.00	H
ATOM	1287	1HB	ARG A	88138.819	-3.221	-2.738	1.00	0.00	H
ATOM	1288	2HB	ARG A	88137.278	-3.168	-1.893	1.00	0.00	H
ATOM	1289	1HG	ARG A	88137.415	-1.551	-4.342	1.00	0.00	H
ATOM	1290	2HG	ARG A	88137.545	-3.296	-4.575	1.00	0.00	H
ATOM	1291	1HD	ARG A	88135.489	-3.478	-3.078	1.00	0.00	H
ATOM	1292	2HD	ARG A	88135.310	-1.739	-3.305	1.00	0.00	H
ATOM	1293	HE	ARG A	88134.509	-2.143	-5.402	1.00	0.00	H
ATOM	1294	1HH1	ARG A	88136.210	-4.985	-4.303	1.00	0.00	H
ATOM	1295	2HH1	ARG A	88135.743	-5.945	-5.665	1.00	0.00	H
ATOM	1296	1HH2	ARG A	88133.894	-3.405	-7.196	1.00	0.00	H
ATOM	1297	2HH2	ARG A	88134.428	-5.048	-7.309	1.00	0.00	H
ATOM	1298	N	PRO A	89137.078	-0.939	0.135	1.00	0.00	N
ATOM	1299	CA	PRO A	89136.874	-0.966	1.588	1.00	0.00	C

ATOM	1300	C	PRO A	89137.102	-2.352	2.179	1.00	0.00 C
ATOM	1301	O	PRO A	89136.511	-3.334	1.728	1.00	0.00 O
ATOM	1302	CB	PRO A	89135.410	-0.549	1.755	1.00	0.00 C
ATOM	1303	CG	PRO A	89135.090	0.225	0.523	1.00	0.00 C
ATOM	1304	CD	PRO A	89135.907	-0.394	-0.577	1.00	0.00 C
ATOM	1305	HA	PRO A	89137.513	-0.254	2.089	1.00	0.00 H
ATOM	1306	1HB	PRO A	89134.791	-1.430	1.841	1.00	0.00 H
ATOM	1307	2HB	PRO A	89135.305	0.060	2.641	1.00	0.00 H
ATOM	1308	1HG	PRO A	89134.037	0.140	0.301	1.00	0.00 H
ATOM	1309	2HG	PRO A	89135.366	1.260	0.658	1.00	0.00 H
ATOM	1310	1HD	PRO A	89135.351	-1.180	-1.064	1.00	0.00 H
ATOM	1311	2HD	PRO A	89136.206	0.358	-1.292	1.00	0.00 H
ATOM	1312	N	ASP A	90137.960	-2.426	3.190	1.00	0.00 N
ATOM	1313	CA	ASP A	90138.264	-3.694	3.844	1.00	0.00 C
ATOM	1314	C	ASP A	90137.542	-3.802	5.183	1.00	0.00 C
ATOM	1315	O	ASP A	90137.962	-3.209	6.176	1.00	0.00 O
ATOM	1316	CB	ASP A	90139.773	-3.835	4.052	1.00	0.00 C
ATOM	1317	CG	ASP A	90140.201	-5.279	4.220	1.00	0.00 C
ATOM	1318	OD1	ASP A	90140.849	-5.592	5.241	1.00	0.00 O
ATOM	1319	OD2	ASP A	90139.886	-6.098	3.331	1.00	0.00 O
ATOM	1320	H	ASP A	90138.399	-1.609	3.505	1.00	0.00 H
ATOM	1321	HA	ASP A	90137.923	-4.488	3.199	1.00	0.00 H
ATOM	1322	1HB	ASP A	90140.288	-3.423	3.197	1.00	0.00 H
ATOM	1323	2HB	ASP A	90140.061	-3.287	4.937	1.00	0.00 H
ATOM	1324	N	SER A	91136.454	-4.564	5.202	1.00	0.00 N
ATOM	1325	CA	SER A	91135.673	-4.751	6.420	1.00	0.00 C
ATOM	1326	C	SER A	91136.034	-6.066	7.101	1.00	0.00 C

ATOM	1327	O	SER A	91135.196	-6.689	7.753	1.00	0.00	O
ATOM	1328	CB	SER A	91134.177	-4.723	6.101	1.00	0.00	C
ATOM	1329	OG	SER A	91133.431	-4.222	7.197	1.00	0.00	O
ATOM	1330	H	SER A	91136.168	-5.012	4.378	1.00	0.00	H
ATOM	1331	HA	SER A	91135.904	-3.937	7.090	1.00	0.00	H
ATOM	1332	1HB	SER A	91134.005	-4.088	5.245	1.00	0.00	H
ATOM	1333	2HB	SER A	91133.841	-5.725	5.881	1.00	0.00	H
ATOM	1334	HG	SER A	91133.583	-3.278	7.284	1.00	0.00	H
ATOM	1335	N	ARG A	92137.285	-6.486	6.944	1.00	0.00	N
ATOM	1336	CA	ARG A	92137.756	-7.728	7.544	1.00	0.00	C
ATOM	1337	C	ARG A	92137.792	-7.619	9.064	1.00	0.00	C
ATOM	1338	O	ARG A	92137.609	-8.610	9.772	1.00	0.00	O
ATOM	1339	CB	ARG A	92139.148	-8.079	7.013	1.00	0.00	C
ATOM	1340	CG	ARG A	92139.143	-8.589	5.580	1.00	0.00	C
ATOM	1341	CD	ARG A	92139.469	-10.073	5.512	1.00	0.00	C
ATOM	1342	NE	ARG A	92138.336	-10.902	5.917	1.00	0.00	N
ATOM	1343	CZ	ARG A	92138.226	-12.197	5.630	1.00	0.00	C
ATOM	1344	NH1	ARG A	92139.176	-12.813	4.938	1.00	0.00	N
ATOM	1345	NH2	ARG A	92137.162	-12.877	6.034	1.00	0.00	N
ATOM	1346	H	ARG A	92137.907	-5.946	6.412	1.00	0.00	H
ATOM	1347	HA	ARG A	92137.067	-8.511	7.267	1.00	0.00	H
ATOM	1348	1HB	ARG A	92139.770	-7.197	7.057	1.00	0.00	H
ATOM	1349	2HB	ARG A	92139.579	-8.843	7.644	1.00	0.00	H
ATOM	1350	1HG	ARG A	92138.163	-8.427	5.155	1.00	0.00	H
ATOM	1351	2HG	ARG A	92139.879	-8.040	5.012	1.00	0.00	H
ATOM	1352	1HD	ARG A	92139.739	-10.322	4.497	1.00	0.00	H
ATOM	1353	2HD	ARG A	92140.303	-10.275	6.167	1.00	0.00	H

ATOM	1354	HE	ARG A	92137.620	-10.471	6.430	1.00	0.00	H
ATOM	1355	1HH1	ARG A	92139.980	-12.307	4.629	1.00	0.00	H
ATOM	1356	2HH1	ARG A	92139.088	-13.787	4.725	1.00	0.00	H
ATOM	1357	1HH2	ARG A	92136.443	-12.418	6.556	1.00	0.00	H
ATOM	1358	2HH2	ARG A	92137.079	-13.850	5.819	1.00	0.00	H
ATOM	1359	N	PHE A	93138.031	-6.410	9.561	1.00	0.00	N
ATOM	1360	CA	PHE A	93138.092	-6.172	10.999	1.00	0.00	C
ATOM	1361	C	PHE A	93136.976	-5.233	11.447	1.00	0.00	C
ATOM	1362	O	PHE A	93137.114	-4.519	12.440	1.00	0.00	O
ATOM	1363	CB	PHE A	93139.451	-5.583	11.381	1.00	0.00	C
ATOM	1364	CG	PHE A	93140.586	-6.559	11.253	1.00	0.00	C
ATOM	1365	CD1	PHE A	93140.898	-7.122	10.026	1.00	0.00	C
ATOM	1366	CD2	PHE A	93141.340	-6.914	12.361	1.00	0.00	C
ATOM	1367	CE1	PHE A	93141.942	-8.020	9.905	1.00	0.00	C
ATOM	1368	CE2	PHE A	93142.385	-7.811	12.246	1.00	0.00	C
ATOM	1369	CZ	PHE A	93142.686	-8.365	11.017	1.00	0.00	C
ATOM	1370	H	PHE A	93138.170	-5.659	8.947	1.00	0.00	H
ATOM	1371	HA	PHE A	93137.968	-7.122	11.497	1.00	0.00	H
ATOM	1372	1HB	PHE A	93139.664	-4.741	10.740	1.00	0.00	H
ATOM	1373	2HB	PHE A	93139.413	-5.248	12.407	1.00	0.00	H
ATOM	1374	HD1	PHE A	93140.317	-6.853	9.156	1.00	0.00	H
ATOM	1375	HD2	PHE A	93141.105	-6.482	13.322	1.00	0.00	H
ATOM	1376	HE1	PHE A	93142.175	-8.451	8.944	1.00	0.00	H
ATOM	1377	HE2	PHE A	93142.965	-8.079	13.117	1.00	0.00	H
ATOM	1378	HZ	PHE A	93143.502	-9.066	10.925	1.00	0.00	H
ATOM	1379	N	ALAA	94135.869	-5.238	10.710	1.00	0.00	N
ATOM	1380	CA	ALAA	94134.732	-4.386	11.038	1.00	0.00	C

ATOM	1381	C	ALA A	94133.628	-5.181	11.726	1.00	0.00	C
ATOM	1382	O	ALA A	94133.159	-6.193	11.204	1.00	0.00	O
ATOM	1383	CB	ALA A	94134.197	-3.716	9.780	1.00	0.00	C
ATOM	1384	H	ALA A	94135.814	-5.829	9.930	1.00	0.00	H
ATOM	1385	HA	ALA A	94135.077	-3.614	11.709	1.00	0.00	H
ATOM	1386	1HB	ALA A	94133.322	-4.246	9.434	1.00	0.00	H
ATOM	1387	2HB	ALA A	94134.956	-3.732	9.013	1.00	0.00	H
ATOM	1388	3HB	ALA A	94133.932	-2.693	10.004	1.00	0.00	H
ATOM	1389	N	SER A	95133.216	-4.717	12.902	1.00	0.00	N
ATOM	1390	CA	SER A	95132.167	-5.384	13.663	1.00	0.00	C
ATOM	1391	C	SER A	95130.804	-4.767	13.363	1.00	0.00	C
ATOM	1392	O	SER A	95130.659	-3.546	13.331	1.00	0.00	O
ATOM	1393	CB	SER A	95132.460	-5.298	15.162	1.00	0.00	C
ATOM	1394	OG	SER A	95133.403	-6.280	15.554	1.00	0.00	O
ATOM	1395	H	SER A	95133.629	-3.905	13.266	1.00	0.00	H
ATOM	1396	HA	SER A	95132.152	-6.422	13.366	1.00	0.00	H
ATOM	1397	1HB	SER A	95132.860	-4.322	15.392	1.00	0.00	H
ATOM	1398	2HB	SER A	95131.546	-5.452	15.714	1.00	0.00	H
ATOM	1399	HG	SER A	95132.941	-7.050	15.894	1.00	0.00	H
ATOM	1400	N	LEU A	96129.809	-5.620	13.143	1.00	0.00	N
ATOM	1401	CA	LEU A	96128.459	-5.157	12.847	1.00	0.00	C
ATOM	1402	C	LEU A	96127.448	-6.288	13.000	1.00	0.00	C
ATOM	1403	O	LEU A	96127.601	-7.357	12.405	1.00	0.00	O
ATOM	1404	CB	LEU A	96128.394	-4.589	11.428	1.00	0.00	C
ATOM	1405	CG	LEU A	96127.019	-4.076	10.997	1.00	0.00	C
ATOM	1406	CD1	LEU A	96126.635	-2.843	11.801	1.00	0.00	C
ATOM	1407	CD2	LEU A	96127.009	-3.769	9.507	1.00	0.00	C

ATOM	1408	H	LEU A	96129.987	-6.583	13.183	1.00	0.00	H
ATOM	1409	HA	LEU A	96128.215	-4.375	13.549	1.00	0.00	H
ATOM	1410	1HB	LEU A	96129.099	-3.773	11.358	1.00	0.00	H
ATOM	1411	2HB	LEU A	96128.696	-5.363	10.738	1.00	0.00	H
ATOM	1412	HG	LEU A	96126.281	-4.841	11.187	1.00	0.00	H
ATOM	1413	1HD1	LEU A	96126.375	-3.136	12.807	1.00	0.00	H
ATOM	1414	2HD1	LEU A	96125.788	-2.360	11.336	1.00	0.00	H
ATOM	1415	3HD1	LEU A	96127.468	-2.157	11.829	1.00	0.00	H
ATOM	1416	1HD2	LEU A	96127.887	-3.195	9.252	1.00	0.00	H
ATOM	1417	2HD2	LEU A	96126.124	-3.200	9.263	1.00	0.00	H
ATOM	1418	3HD2	LEU A	96127.008	-4.693	8.949	1.00	0.00	H
ATOM	1419	N	GLN A	97126.414	-6.047	13.800	1.00	0.00	N
ATOM	1420	CA	GLN A	97125.375	-7.044	14.031	1.00	0.00	C
ATOM	1421	C	GLN A	97124.046	-6.595	13.432	1.00	0.00	C
ATOM	1422	O	GLN A	97123.770	-5.398	13.339	1.00	0.00	O
ATOM	1423	CB	GLN A	97125.212	-7.303	15.529	1.00	0.00	C
ATOM	1424	CG	GLN A	97126.300	-8.185	16.117	1.00	0.00	C
ATOM	1425	CD	GLN A	97126.152	-9.640	15.720	1.00	0.00	C
ATOM	1426	OE1	GLN A	97125.213	-10.317	16.141	1.00	0.00	O
ATOM	1427	NE2	GLN A	97127.077	-10.129	14.903	1.00	0.00	N
ATOM	1428	H	GLN A	97126.347	-5.176	14.244	1.00	0.00	H
ATOM	1429	HA	GLN A	97125.682	-7.961	13.548	1.00	0.00	H
ATOM	1430	1HB	GLN A	97125.225	-6.356	16.050	1.00	0.00	H
ATOM	1431	2HB	GLN A	97124.259	-7.784	15.699	1.00	0.00	H
ATOM	1432	1HG	GLN A	97127.260	-7.830	15.771	1.00	0.00	H
ATOM	1433	2HG	GLN A	97126.260	-8.115	17.196	1.00	0.00	H
ATOM	1434	1HE2	GLN A	97127.796	-9.531	14.608	1.00	0.00	H

ATOM	1435	2HE2	GLN A	97127.005	-11.066	14.630	1.00	0.00	H
ATOM	1436	N	PRO A	98123.198	-7.552	13.015	1.00	0.00	N
ATOM	1437	CA	PRO A	98121.892	-7.248	12.423	1.00	0.00	C
ATOM	1438	C	PRO A	98121.064	-6.310	13.296	1.00	0.00	C
ATOM	1439	O	PRO A	98121.520	-5.859	14.346	1.00	0.00	O
ATOM	1440	CB	PRO A	98121.218	-8.617	12.320	1.00	0.00	C
ATOM	1441	CG	PRO A	98122.345	-9.589	12.252	1.00	0.00	C
ATOM	1442	CD	PRO A	98123.448	-9.004	13.089	1.00	0.00	C
ATOM	1443	HA	PRO A	98121.996	-6.819	11.436	1.00	0.00	H
ATOM	1444	1HB	PRO A	98120.603	-8.785	13.193	1.00	0.00	H
ATOM	1445	2HB	PRO A	98120.610	-8.657	11.430	1.00	0.00	H
ATOM	1446	1HG	PRO A	98122.033	-10.541	12.655	1.00	0.00	H
ATOM	1447	2HG	PRO A	98122.671	-9.702	11.228	1.00	0.00	H
ATOM	1448	1HD	PRO A	98123.376	-9.356	14.108	1.00	0.00	H
ATOM	1449	2HD	PRO A	98124.412	-9.251	12.670	1.00	0.00	H
ATOM	1450	N	SER A	99119.844	-6.023	12.855	1.00	0.00	N
ATOM	1451	CA	SER A	99118.951	-5.140	13.597	1.00	0.00	C
ATOM	1452	C	SER A	99117.810	-5.928	14.232	1.00	0.00	C
ATOM	1453	O	SER A	99117.697	-5.997	15.456	1.00	0.00	O
ATOM	1454	CB	SER A	99118.386	-4.058	12.675	1.00	0.00	C
ATOM	1455	OG	SER A	99118.327	-4.512	11.333	1.00	0.00	O
ATOM	1456	H	SER A	99119.535	-6.414	12.011	1.00	0.00	H
ATOM	1457	HA	SER A	99119.527	-4.669	14.379	1.00	0.00	H
ATOM	1458	1HB	SER A	99117.390	-3.797	12.997	1.00	0.00	H
ATOM	1459	2HB	SER A	99119.020	-3.184	12.717	1.00	0.00	H
ATOM	1460	HG	SER A	99118.412	-3.764	10.737	1.00	0.00	H
ATOM	1461	N	GLY A	100116.966	-6.519	13.393	1.00	0.00	N

ATOM	1462	CA	GLY A 1001	15.846	-7.293	13.892	1.00	0.00	C
ATOM	1463	C	GLY A 1001	14.524	-6.565	13.742	1.00	0.00	C
ATOM	1464	O	GLY A 1001	14.144	-5.782	14.613	1.00	0.00	O
ATOM	1465	H	GLY A 1001	17.107	-6.428	12.427	1.00	0.00	H
ATOM	1466	1HA	GLY A 1001	15.796	-8.225	13.347	1.00	0.00	H
ATOM	1467	2HA	GLY A 1001	16.009	-7.509	14.937	1.00	0.00	H
ATOM	1468	N	PRO A 1011	13.793	-6.802	12.638	1.00	0.00	N
ATOM	1469	CA	PRO A 1011	12.500	-6.153	12.392	1.00	0.00	C
ATOM	1470	C	PRO A 1011	11.553	-6.277	13.581	1.00	0.00	C
ATOM	1471	O	PRO A 1011	11.276	-7.378	14.055	1.00	0.00	O
ATOM	1472	CB	PRO A 1011	11.946	-6.912	11.186	1.00	0.00	C
ATOM	1473	CG	PRO A 1011	13.151	-7.427	10.478	1.00	0.00	C
ATOM	1474	CD	PRO A 1011	14.167	-7.720	11.546	1.00	0.00	C
ATOM	1475	HA	PRO A 1011	12.624	-5.110	12.139	1.00	0.00	H
ATOM	1476	1HB	PRO A 1011	11.311	-7.718	11.525	1.00	0.00	H
ATOM	1477	2HB	PRO A 1011	11.380	-6.238	10.561	1.00	0.00	H
ATOM	1478	1HG	PRO A 1011	12.901	-8.329	9.939	1.00	0.00	H
ATOM	1479	2HG	PRO A 1011	13.526	-6.676	9.799	1.00	0.00	H
ATOM	1480	1HD	PRO A 1011	14.093	-8.749	11.865	1.00	0.00	H
ATOM	1481	2HD	PRO A 1011	15.164	-7.505	11.188	1.00	0.00	H
ATOM	1482	N	SER A 1021	11.061	-5.138	14.060	1.00	0.00	N
ATOM	1483	CA	SER A 1021	10.144	-5.120	15.194	1.00	0.00	C
ATOM	1484	C	SER A 1021	10.802	-5.719	16.434	1.00	0.00	C
ATOM	1485	O	SER A 1021	10.493	-6.842	16.831	1.00	0.00	O
ATOM	1486	CB	SER A 1021	08.866	-5.890	14.857	1.00	0.00	C
ATOM	1487	OG	SER A 1021	07.873	-5.024	14.333	1.00	0.00	O
ATOM	1488	H	SER A 1021	11.319	-4.292	13.640	1.00	0.00	H

ATOM	1489	HA	SER A 102109.891	-4.091	15.398	1.00	0.00	H
ATOM	1490	1HB	SER A 102109.088	-6.647	14.120	1.00	0.00	H
ATOM	1491	2HB	SER A 102108.483	-6.358	15.752	1.00	0.00	H
ATOM	1492	HG	SER A 102108.270	-4.434	13.690	1.00	0.00	H
ATOM	1493	N	SER A 103111.709	-4.961	17.041	1.00	0.00	N
ATOM	1494	CA	SER A 103112.410	-5.416	18.235	1.00	0.00	C
ATOM	1495	C	SER A 103111.554	-5.208	19.481	1.00	0.00	C
ATOM	1496	O	SER A 103110.663	-4.359	19.498	1.00	0.00	O
ATOM	1497	CB	SER A 103113.740	-4.676	18.385	1.00	0.00	C
ATOM	1498	OG	SER A 103114.772	-5.329	17.666	1.00	0.00	O
ATOM	1499	H	SER A 103111.912	-4.075	16.676	1.00	0.00	H
ATOM	1500	HA	SER A 103112.607	-6.472	18.121	1.00	0.00	H
ATOM	1501	1HB	SER A 103113.634	-3.670	18.006	1.00	0.00	H
ATOM	1502	2HB	SER A 103114.013	-4.638	19.430	1.00	0.00	H
ATOM	1503	HG	SER A 103114.839	-6.240	17.960	1.00	0.00	H
ATOM	1504	N	GLY A 104111.832	-5.986	20.520	1.00	0.00	N
ATOM	1505	CA	GLY A 104111.079	-5.871	21.756	1.00	0.00	C
ATOM	1506	C	GLY A 104111.969	-5.896	22.983	1.00	0.00	C
ATOM	1507	O	GLY A 104111.575	-6.523	23.989	1.00	0.00	O
ATOM	1508	OXT	GLY A 104113.061	-5.291	22.937	1.00	0.00	O
ATOM	1509	H	GLY A 104112.555	-6.645	20.449	1.00	0.00	H
ATOM	1510	1HA	GLY A 104110.529	-4.941	21.743	1.00	0.00	H
ATOM	1511	2HA	GLY A 104110.379	-6.691	21.815	1.00	0.00	H
TER	1512	GLY A 104						
ENDMDL								

Three-Dimensional Structure Coordinate Table 10

ATOM 1	N	GLY A	1132.485	-2.135	-14.848	1.00	0.00	N
ATOM 2	CA	GLY A	1133.474	-2.831	-13.979	1.00	0.00	C
ATOM 3	C	GLY A	1133.260	-2.538	-12.507	1.00	0.00	C
ATOM 4	O	GLY A	1133.286	-3.446	-11.676	1.00	0.00	O
ATOM 5 1H		GLY A	1132.906	-1.268	-15.244	1.00	0.00	H
ATOM 6 2H		GLY A	1131.643	-1.877	-14.296	1.00	0.00	H
ATOM 7 3H		GLY A	1132.197	-2.756	-15.631	1.00	0.00	H
ATOM 8 1HA		GLY A	1133.389	-3.896	-14.138	1.00	0.00	H
ATOM 9 2HA		GLY A	1134.468	-2.515	-14.257	1.00	0.00	H
ATOM10	N	SER A	2133.048	-1.266	-12.184	1.00	0.00	N
ATOM11	CA	SER A	2132.829	-0.855	-10.803	1.00	0.00	C
ATOM12	C	SER A	2131.367	-0.493	-10.568	1.00	0.00	C
ATOM13	O	SER A	2130.763	0.238	-11.354	1.00	0.00	O
ATOM14	CB	SER A	2133.723	0.338	-10.456	1.00	0.00	C
ATOM15	OG	SER A	2133.256	1.523	-11.074	1.00	0.00	O
ATOM16	H	SER A	2133.039	-0.588	-12.892	1.00	0.00	H
ATOM17	HA	SER A	2133.089	-1.686	-10.164	1.00	0.00	H
ATOM18 1HB		SER A	2133.727	0.483	-9.386	1.00	0.00	H
ATOM19 2HB		SER A	2134.729	0.141	-10.795	1.00	0.00	H
ATOM20	HG	SER A	2133.668	2.285	-10.661	1.00	0.00	H
ATOM21	N	SER A	3130.801	-1.010	-9.482	1.00	0.00	N
ATOM22	CA	SER A	3129.408	-0.742	-9.143	1.00	0.00	C
ATOM23	C	SER A	3129.287	0.525	-8.303	1.00	0.00	C
ATOM24	O	SER A	3129.369	0.478	-7.076	1.00	0.00	O
ATOM25	CB	SER A	3128.807	-1.928	-8.388	1.00	0.00	C
ATOM26	OG	SER A	3127.458	-2.142	-8.764	1.00	0.00	O
ATOM27	H	SER A	3131.334	-1.586	-8.893	1.00	0.00	H

ATOM28	HA	SER A	3128.865	-0.602	-10.066	1.00	0.00	H
ATOM29	1HB	SER A	3129.375	-2.820	-8.612	1.00	0.00	H
ATOM30	2HB	SER A	3128.847	-1.734	-7.326	1.00	0.00	H
ATOM31	HG	SER A	3126.975	-1.313	-8.709	1.00	0.00	H
ATOM32	N	GLY A	4129.091	1.657	-8.972	1.00	0.00	N
ATOM33	CA	GLY A	4128.962	2.919	-8.271	1.00	0.00	C
ATOM34	C	GLY A	4128.420	4.023	-9.158	1.00	0.00	C
ATOM35	O	GLY A	4128.458	3.918	-10.383	1.00	0.00	O
ATOM36	H	GLY A	4129.035	1.633	-9.950	1.00	0.00	H
ATOM37	1HA	GLY A	4128.293	2.787	-7.432	1.00	0.00	H
ATOM38	2HA	GLY A	4129.932	3.214	-7.901	1.00	0.00	H
ATOM39	N	SER A	5127.915	5.084	-8.537	1.00	0.00	N
ATOM40	CA	SER A	5127.362	6.212	-9.279	1.00	0.00	C
ATOM41	C	SER A	5127.409	7.487	-8.444	1.00	0.00	C
ATOM42	O	SER A	5127.856	8.534	-8.914	1.00	0.00	O
ATOM43	CB	SER A	5125.922	5.916	-9.699	1.00	0.00	C
ATOM44	OG	SER A	5125.076	5.793	-8.569	1.00	0.00	O
ATOM45	H	SER A	5127.913	5.110	-7.558	1.00	0.00	H
ATOM46	HA	SER A	5127.964	6.353	-10.164	1.00	0.00	H
ATOM47	1HB	SER A	5125.558	6.722	-10.319	1.00	0.00	H
ATOM48	2HB	SER A	5125.895	4.993	-10.258	1.00	0.00	H
ATOM49	HG	SER A	5124.212	6.159	-8.774	1.00	0.00	H
ATOM50	N	SER A	6126.945	7.394	-7.202	1.00	0.00	N
ATOM51	CA	SER A	6126.933	8.540	-6.301	1.00	0.00	C
ATOM52	C	SER A	6128.282	8.699	-5.606	1.00	0.00	C
ATOM53	O	SER A	6129.041	7.739	-5.475	1.00	0.00	O
ATOM54	CB	SER A	6125.824	8.385	-5.259	1.00	0.00	C

ATOM55	OG	SER A	6125.843	7.091	-4.683	1.00	0.00 O
ATOM56	H	SER A	6126.601	6.532	-6.884	1.00	0.00 H
ATOM57	HA	SER A	6126.740	9.423	-6.892	1.00	0.00 H
ATOM58	1HB	SER A	6125.965	9.115	-4.475	1.00	0.00 H
ATOM59	2HB	SER A	6124.866	8.543	-5.731	1.00	0.00 H
ATOM60	HG	SER A	6126.724	6.899	-4.353	1.00	0.00 H
ATOM61	N	GLY A	7128.574	9.917	-5.163	1.00	0.00 N
ATOM62	CA	GLY A	7129.830	10.179	-4.487	1.00	0.00 C
ATOM63	C	GLY A	7129.885	11.568	-3.882	1.00	0.00 C
ATOM64	O	GLY A	7130.880	12.278	-4.029	1.00	0.00 O
ATOM65	H	GLY A	7127.930	10.645	-5.297	1.00	0.00 H
ATOM66	1HA	GLY A	7129.962	9.451	-3.702	1.00	0.00 H
ATOM67	2HA	GLY A	7130.637	10.078	-5.198	1.00	0.00 H
ATOM68	N	LEU A	8128.813	11.957	-3.200	1.00	0.00 N
ATOM69	CA	LEU A	8128.741	13.271	-2.570	1.00	0.00 C
ATOM70	C	LEU A	8128.749	13.146	-1.050	1.00	0.00 C
ATOM71	O	LEU A	8128.123	13.940	-0.349	1.00	0.00 O
ATOM72	CB	LEU A	8127.482	14.011	-3.026	1.00	0.00 C
ATOM73	CG	LEU A	8127.632	14.802	-4.326	1.00	0.00 C
ATOM74	CD1	LEU A	8126.291	14.925	-5.034	1.00	0.00 C
ATOM75	CD2	LEU A	8128.217	16.179	-4.047	1.00	0.00 C
ATOM76	H	LEU A	8128.050	11.347	-3.119	1.00	0.00 H
ATOM77	HA	LEU A	8129.610	13.834	-2.878	1.00	0.00 H
ATOM78	1HB	LEU A	8126.692	13.286	-3.158	1.00	0.00 H
ATOM79	2HB	LEU A	8127.190	14.697	-2.245	1.00	0.00 H
ATOM80	HG	LEU A	8128.308	14.277	-4.983	1.00	0.00 H
ATOM81	1HD1	LEU A	8126.239	15.875	-5.546	1.00	0.00 H

ATOM82	2HD1	LEU A	8125.493	14.863	-4.307	1.00	0.00	H	
ATOM83	3HD1	LEU A	8126.187	14.124	-5.750	1.00	0.00	H	
ATOM84	1HD2	LEU A	8127.824	16.888	-4.760	1.00	0.00	H	
ATOM85	2HD2	LEU A	8129.293	16.137	-4.136	1.00	0.00	H	
ATOM86	3HD2	LEU A	8127.950	16.487	-3.047	1.00	0.00	H	
ATOM87	N	ALA A	9129.465	12.144	-0.548	1.00	0.00	N	
ATOM88	CA	ALA A	9129.555	11.916	0.889	1.00	0.00	C	
ATOM89	C	ALA A	9130.916	11.341	1.267	1.00	0.00	C	
ATOM90	O	ALA A	9131.007	10.386	2.039	1.00	0.00	O	
ATOM91	CB	ALA A	9128.440	10.988	1.346	1.00	0.00	C	
ATOM92	H	ALA A	9129.942	11.546	-1.158	1.00	0.00	H	
ATOM93	HA	ALA A	9129.426	12.866	1.386	1.00	0.00	H	
ATOM94	1HB	ALA A	9128.296	11.095	2.411	1.00	0.00	H	
ATOM95	2HB	ALA A	9128.707	9.966	1.120	1.00	0.00	H	
ATOM96	3HB	ALA A	9127.526	11.242	0.831	1.00	0.00	H	
ATOM97	N	MET A	10131.974	11.929	0.717	1.00	0.00	N	
ATOM98	CA	MET A	10133.332	11.475	0.996	1.00	0.00	C	
ATOM99	C	MET A	10134.283	12.661	1.158	1.00	0.00	C	
ATOM	100	O	MET A	10135.242	12.808	0.401	1.00	0.00	O
ATOM	101	CB	MET A	10133.825	10.557	-0.127	1.00	0.00	C
ATOM	102	CG	MET A	10133.494	11.064	-1.523	1.00	0.00	C
ATOM	103	SD	MET A	10134.899	11.857	-2.329	1.00	0.00	S
ATOM	104	CE	MET A	10134.803	11.137	-3.965	1.00	0.00	C
ATOM	105	H	MET A	10131.838	12.686	0.109	1.00	0.00	H
ATOM	106	HA	MET A	10133.311	10.918	1.920	1.00	0.00	H
ATOM	107	1HB	MET A	10134.897	10.458	-0.048	1.00	0.00	H
ATOM	108	2HB	MET A	10133.372	9.584	-0.004	1.00	0.00	H

ATOM	109	1HG	MET A	10133.178	10.227	-2.128	1.00	0.00	H
ATOM	110	2HG	MET A	10132.687	11.778	-1.452	1.00	0.00	H
ATOM	111	1HE	MET A	10135.673	11.424	-4.536	1.00	0.00	H
ATOM	112	2HE	MET A	10133.912	11.489	-4.462	1.00	0.00	H
ATOM	113	3HE	MET A	10134.767	10.060	-3.883	1.00	0.00	H
ATOM	114	N	PRO A	11134.028	13.530	2.154	1.00	0.00	N
ATOM	115	CA	PRO A	11134.869	14.707	2.406	1.00	0.00	C
ATOM	116	C	PRO A	11136.323	14.343	2.706	1.00	0.00	C
ATOM	117	O	PRO A	11137.243	14.934	2.142	1.00	0.00	O
ATOM	118	CB	PRO A	11134.223	15.370	3.629	1.00	0.00	C
ATOM	119	CG	PRO A	11132.840	14.818	3.694	1.00	0.00	C
ATOM	120	CD	PRO A	11132.907	13.439	3.104	1.00	0.00	C
ATOM	121	HA	PRO A	11134.841	15.391	1.570	1.00	0.00	H
ATOM	122	1HB	PRO A	11134.789	15.125	4.514	1.00	0.00	H
ATOM	123	2HB	PRO A	11134.212	16.441	3.492	1.00	0.00	H
ATOM	124	1HG	PRO A	11132.515	14.768	4.723	1.00	0.00	H
ATOM	125	2HG	PRO A	11132.170	15.439	3.119	1.00	0.00	H
ATOM	126	1HD	PRO A	11133.108	12.708	3.873	1.00	0.00	H
ATOM	127	2HD	PRO A	11131.985	13.205	2.592	1.00	0.00	H
ATOM	128	N	PRO A	12136.556	13.370	3.608	1.00	0.00	N
ATOM	129	CA	PRO A	12137.907	12.949	3.978	1.00	0.00	C
ATOM	130	C	PRO A	12138.499	11.939	3.000	1.00	0.00	C
ATOM	131	O	PRO A	12139.664	12.044	2.616	1.00	0.00	O
ATOM	132	CB	PRO A	12137.694	12.306	5.345	1.00	0.00	C
ATOM	133	CG	PRO A	12136.322	11.725	5.275	1.00	0.00	C
ATOM	134	CD	PRO A	12135.527	12.609	4.344	1.00	0.00	C
ATOM	135	HA	PRO A	12138.574	13.792	4.073	1.00	0.00	H

ATOM	136	1HB	PRO A	12138.441	11.543	5.507	1.00	0.00	H
ATOM	137	2HB	PRO A	12137.765	13.059	6.116	1.00	0.00	H
ATOM	138	1HG	PRO A	12136.371	10.720	4.885	1.00	0.00	H
ATOM	139	2HG	PRO A	12135.876	11.724	6.259	1.00	0.00	H
ATOM	140	1HD	PRO A	12134.939	12.007	3.668	1.00	0.00	H
ATOM	141	2HD	PRO A	12134.889	13.271	4.910	1.00	0.00	H
ATOM	142	N	GLY A	13137.695	10.958	2.605	1.00	0.00	N
ATOM	143	CA	GLY A	13138.165	9.942	1.680	1.00	0.00	C
ATOM	144	C	GLY A	13137.387	9.927	0.380	1.00	0.00	C
ATOM	145	O	GLY A	13137.055	10.980	-0.165	1.00	0.00	O
ATOM	146	H	GLY A	13136.776	10.921	2.947	1.00	0.00	H
ATOM	147	1HA	GLY A	13139.206	10.126	1.460	1.00	0.00	H
ATOM	148	2HA	GLY A	13138.075	8.975	2.152	1.00	0.00	H
ATOM	149	N	ASN A	14137.097	8.729	-0.117	1.00	0.00	N
ATOM	150	CA	ASN A	14136.354	8.576	-1.364	1.00	0.00	C
ATOM	151	C	ASN A	14135.392	7.395	-1.282	1.00	0.00	C
ATOM	152	O	ASN A	14135.721	6.353	-0.716	1.00	0.00	O
ATOM	153	CB	ASN A	14137.318	8.384	-2.536	1.00	0.00	C
ATOM	154	CG	ASN A	14138.440	9.403	-2.536	1.00	0.00	C
ATOM	155	OD1	ASN A	14138.425	10.362	-3.307	1.00	0.00	O
ATOM	156	ND2	ASN A	14139.424	9.201	-1.666	1.00	0.00	N
ATOM	157	H	ASN A	14137.390	7.928	0.364	1.00	0.00	H
ATOM	158	HA	ASN A	14135.785	9.479	-1.523	1.00	0.00	H
ATOM	159	1HB	ASN A	14137.753	7.397	-2.478	1.00	0.00	H
ATOM	160	2HB	ASN A	14136.771	8.478	-3.462	1.00	0.00	H
ATOM	161	1HD2	ASN A	14139.370	8.415	-1.082	1.00	0.00	H
ATOM	162	2HD2	ASN A	14140.162	9.844	-1.644	1.00	0.00	H

ATOM	163	N	SER A	15134.203	7.567	-1.851	1.00	0.00	N
ATOM	164	CA	SER A	15133.189	6.517	-1.845	1.00	0.00	C
ATOM	165	C	SER A	15132.729	6.212	-0.422	1.00	0.00	C
ATOM	166	O	SER A	15131.666	6.664	0.007	1.00	0.00	O
ATOM	167	CB	SER A	15133.733	5.247	-2.504	1.00	0.00	C
ATOM	168	OG	SER A	15133.356	5.179	-3.869	1.00	0.00	O
ATOM	169	H	SER A	15134.001	8.422	-2.287	1.00	0.00	H
ATOM	170	HA	SER A	15132.344	6.872	-2.414	1.00	0.00	H
ATOM	171	1HB	SER A	15134.811	5.244	-2.442	1.00	0.00	H
ATOM	172	2HB	SER A	15133.341	4.381	-1.991	1.00	0.00	H
ATOM	173	HG	SER A	15132.415	5.352	-3.950	1.00	0.00	H
ATOM	174	N	HIS A	16133.533	5.445	0.306	1.00	0.00	N
ATOM	175	CA	HIS A	16133.208	5.082	1.680	1.00	0.00	C
ATOM	176	C	HIS A	16134.066	5.865	2.668	1.00	0.00	C
ATOM	177	O	HIS A	16133.573	6.351	3.686	1.00	0.00	O
ATOM	178	CB	HIS A	16133.405	3.580	1.894	1.00	0.00	C
ATOM	179	CG	HIS A	16132.249	2.752	1.423	1.00	0.00	C
ATOM	180	ND1	HIS A	16131.753	1.680	2.135	1.00	0.00	N
ATOM	181	CD2	HIS A	16131.490	2.843	0.305	1.00	0.00	C
ATOM	182	CE1	HIS A	16130.739	1.148	1.475	1.00	0.00	C
ATOM	183	NE2	HIS A	16130.560	1.835	0.362	1.00	0.00	N
ATOM	184	H	HIS A	16134.367	5.115	-0.090	1.00	0.00	H
ATOM	185	HA	HIS A	16132.170	5.328	1.851	1.00	0.00	H
ATOM	186	1HB	HIS A	16134.284	3.260	1.355	1.00	0.00	H
ATOM	187	2HB	HIS A	16133.545	3.389	2.948	1.00	0.00	H
ATOM	188	HD1	HIS A	16132.093	1.357	2.995	1.00	0.00	H
ATOM	189	HD2	HIS A	16131.598	3.573	-0.485	1.00	0.00	H

ATOM	190	HE1	HIS A	16130.157	0.295	1.792	1.00	0.00	H
ATOM	191	HE2	HIS A	16129.823	1.704	-0.270	1.00	0.00	H
ATOM	192	N	GLY A	17135.354	5.982	2.360	1.00	0.00	N
ATOM	193	CA	GLY A	17136.261	6.707	3.230	1.00	0.00	C
ATOM	194	C	GLY A	17137.602	6.015	3.375	1.00	0.00	C
ATOM	195	O	GLY A	17138.004	5.653	4.481	1.00	0.00	O
ATOM	196	H	GLY A	17135.690	5.574	1.536	1.00	0.00	H
ATOM	197	1HA	GLY A	17136.421	7.695	2.823	1.00	0.00	H
ATOM	198	2HA	GLY A	17135.809	6.802	4.206	1.00	0.00	H
ATOM	199	N	LEU A	18138.294	5.830	2.256	1.00	0.00	N
ATOM	200	CA	LEU A	18139.598	5.176	2.264	1.00	0.00	C
ATOM	201	C	LEU A	18140.706	6.174	2.579	1.00	0.00	C
ATOM	202	O	LEU A	18141.119	6.952	1.718	1.00	0.00	O
ATOM	203	CB	LEU A	18139.865	4.509	0.913	1.00	0.00	C
ATOM	204	CG	LEU A	18138.793	3.519	0.456	1.00	0.00	C
ATOM	205	CD1	LEU A	18138.995	3.149	-1.004	1.00	0.00	C
ATOM	206	CD2	LEU A	18138.812	2.274	1.330	1.00	0.00	C
ATOM	207	H	LEU A	18137.921	6.141	1.406	1.00	0.00	H
ATOM	208	HA	LEU A	18139.583	4.418	3.032	1.00	0.00	H
ATOM	209	1HB	LEU A	18139.953	5.284	0.165	1.00	0.00	H
ATOM	210	2HB	LEU A	18140.806	3.983	0.975	1.00	0.00	H
ATOM	211	HG	LEU A	18137.821	3.981	0.552	1.00	0.00	H
ATOM	212	1HD1	LEU A	18139.946	2.651	-1.122	1.00	0.00	H
ATOM	213	2HD1	LEU A	18138.982	4.045	-1.608	1.00	0.00	H
ATOM	214	3HD1	LEU A	18138.202	2.489	-1.322	1.00	0.00	H
ATOM	215	1HD2	LEU A	18139.397	1.505	0.849	1.00	0.00	H
ATOM	216	2HD2	LEU A	18137.802	1.920	1.475	1.00	0.00	H

ATOM	217	3HD2	LEU A	18139.250	2.513	2.288	1.00	0.00	H
ATOM	218	N	GLU A	19141.185	6.148	3.819	1.00	0.00	N
ATOM	219	CA	GLU A	19142.246	7.051	4.248	1.00	0.00	C
ATOM	220	C	GLU A	19143.202	6.348	5.207	1.00	0.00	C
ATOM	221	O	GLU A	19143.061	5.156	5.479	1.00	0.00	O
ATOM	222	CB	GLU A	19141.650	8.289	4.919	1.00	0.00	C
ATOM	223	CG	GLU A	19140.820	7.972	6.152	1.00	0.00	C
ATOM	224	CD	GLU A	19141.049	8.961	7.279	1.00	0.00	C
ATOM	225	OE1	GLU A	19142.219	9.330	7.517	1.00	0.00	O
ATOM	226	OE2	GLU A	19140.058	9.368	7.922	1.00	0.00	O
ATOM	227	H	GLU A	19140.816	5.504	4.460	1.00	0.00	H
ATOM	228	HA	GLU A	19142.796	7.357	3.371	1.00	0.00	H
ATOM	229	1HB	GLU A	19142.455	8.948	5.212	1.00	0.00	H
ATOM	230	2HB	GLU A	19141.018	8.800	4.209	1.00	0.00	H
ATOM	231	1HG	GLU A	19139.776	7.993	5.883	1.00	0.00	H
ATOM	232	2HG	GLU A	19141.081	6.984	6.502	1.00	0.00	H
ATOM	233	N	VAL A	20144.175	7.096	5.717	1.00	0.00	N
ATOM	234	CA	VAL A	20145.156	6.545	6.647	1.00	0.00	C
ATOM	235	C	VAL A	20144.476	5.973	7.886	1.00	0.00	C
ATOM	236	O	VAL A	20143.563	6.582	8.443	1.00	0.00	O
ATOM	237	CB	VAL A	20146.178	7.612	7.081	1.00	0.00	C
ATOM	238	CG1	VAL A	20147.289	6.984	7.908	1.00	0.00	C
ATOM	239	CG2	VAL A	20146.748	8.330	5.868	1.00	0.00	C
ATOM	240	H	VAL A	20144.237	8.041	5.462	1.00	0.00	H
ATOM	241	HA	VAL A	20145.687	5.753	6.139	1.00	0.00	H
ATOM	242	HB	VAL A	20145.670	8.340	7.697	1.00	0.00	H
ATOM	243	1HG1	VAL A	20146.955	6.867	8.929	1.00	0.00	H

ATOM	244	2HG1	VAL A	20148.160	7.622	7.885	1.00	0.00	H
ATOM	245	3HG1	VAL A	20147.539	6.017	7.499	1.00	0.00	H
ATOM	246	1HG2	VAL A	20147.025	7.605	5.117	1.00	0.00	H
ATOM	247	2HG2	VAL A	20147.620	8.896	6.161	1.00	0.00	H
ATOM	248	3HG2	VAL A	20146.004	9.001	5.463	1.00	0.00	H
ATOM	249	N	GLY A	21144.928	4.797	8.312	1.00	0.00	N
ATOM	250	CA	GLY A	21144.352	4.163	9.482	1.00	0.00	C
ATOM	251	C	GLY A	21143.278	3.154	9.125	1.00	0.00	C
ATOM	252	O	GLY A	21143.175	2.098	9.750	1.00	0.00	O
ATOM	253	H	GLY A	21145.658	4.358	7.827	1.00	0.00	H
ATOM	254	1HA	GLY A	21145.137	3.658	10.028	1.00	0.00	H
ATOM	255	2HA	GLY A	21143.920	4.923	10.116	1.00	0.00	H
ATOM	256	N	SER A	22142.474	3.480	8.118	1.00	0.00	N
ATOM	257	CA	SER A	22141.402	2.595	7.678	1.00	0.00	C
ATOM	258	C	SER A	22141.949	1.470	6.805	1.00	0.00	C
ATOM	259	O	SER A	22142.939	1.645	6.095	1.00	0.00	O
ATOM	260	CB	SER A	22140.344	3.385	6.907	1.00	0.00	C
ATOM	261	OG	SER A	22140.269	4.723	7.368	1.00	0.00	O
ATOM	262	H	SER A	22142.606	4.335	7.659	1.00	0.00	H
ATOM	263	HA	SER A	22140.947	2.164	8.556	1.00	0.00	H
ATOM	264	1HB	SER A	22140.598	3.395	5.857	1.00	0.00	H
ATOM	265	2HB	SER A	22139.380	2.916	7.039	1.00	0.00	H
ATOM	266	HG	SER A	22140.281	4.731	8.329	1.00	0.00	H
ATOM	267	N	LEU A	23141.298	0.312	6.864	1.00	0.00	N
ATOM	268	CA	LEU A	23141.719	-0.842	6.079	1.00	0.00	C
ATOM	269	C	LEU A	23141.156	-0.772	4.664	1.00	0.00	C
ATOM	270	O	LEU A	23140.073	-0.229	4.441	1.00	0.00	O

ATOM	271	CB	LEU A	23141.267	-2.138	6.756	1.00	0.00	C
ATOM	272	CG	LEU A	23141.762	-2.325	8.192	1.00	0.00	C
ATOM	273	CD1	LEU A	23140.763	-3.143	8.997	1.00	0.00	C
ATOM	274	CD2	LEU A	23143.129	-2.990	8.201	1.00	0.00	C
ATOM	275	H	LEU A	23140.515	0.233	7.449	1.00	0.00	H
ATOM	276	HA	LEU A	23142.797	-0.831	6.026	1.00	0.00	H
ATOM	277	1HB	LEU A	23140.186	-2.158	6.763	1.00	0.00	H
ATOM	278	2HB	LEU A	23141.622	-2.970	6.167	1.00	0.00	H
ATOM	279	HG	LEU A	23141.855	-1.357	8.662	1.00	0.00	H
ATOM	280	1HD1	LEU A	23140.721	-2.765	10.008	1.00	0.00	H
ATOM	281	2HD1	LEU A	23141.074	-4.177	9.012	1.00	0.00	H
ATOM	282	3HD1	LEU A	23139.786	-3.066	8.544	1.00	0.00	H
ATOM	283	1HD2	LEU A	23143.718	-2.591	9.013	1.00	0.00	H
ATOM	284	2HD2	LEU A	23143.630	-2.796	7.264	1.00	0.00	H
ATOM	285	3HD2	LEU A	23143.010	-4.056	8.332	1.00	0.00	H
ATOM	286	N	ALA A	24141.896	-1.326	3.709	1.00	0.00	N
ATOM	287	CA	ALA A	24141.472	-1.326	2.314	1.00	0.00	C
ATOM	288	C	ALA A	24142.116	-2.474	1.545	1.00	0.00	C
ATOM	289	O	ALA A	24143.252	-2.858	1.820	1.00	0.00	O
ATOM	290	CB	ALA A	24141.806	0.005	1.660	1.00	0.00	C
ATOM	291	H	ALA A	24142.750	-1.744	3.949	1.00	0.00	H
ATOM	292	HA	ALA A	24140.398	-1.451	2.294	1.00	0.00	H
ATOM	293	1HB	ALA A	24142.746	-0.079	1.134	1.00	0.00	H
ATOM	294	2HB	ALA A	24141.884	0.770	2.419	1.00	0.00	H
ATOM	295	3HB	ALA A	24141.026	0.270	0.962	1.00	0.00	H
ATOM	296	N	GLU A	25141.383	-3.016	0.578	1.00	0.00	N
ATOM	297	CA	GLU A	25141.883	-4.121	-0.233	1.00	0.00	C

ATOM	298	C	GLU A	25142.149	-3.669	-1.665	1.00	0.00 C
ATOM	299	O	GLU A	25141.544	-2.711	-2.146	1.00	0.00 O
ATOM	300	CB	GLU A	25140.883	-5.278	-0.229	1.00	0.00 C
ATOM	301	CG	GLU A	25141.402	-6.533	-0.912	1.00	0.00 C
ATOM	302	CD	GLU A	25140.359	-7.631	-0.983	1.00	0.00 C
ATOM	303	OE1	GLU A	25140.483	-8.511	-1.860	1.00	0.00 O
ATOM	304	OE2	GLU A	25139.420	-7.612	-0.159	1.00	0.00 O
ATOM	305	H	GLU A	25140.484	-2.666	0.406	1.00	0.00 H
ATOM	306	HA	GLU A	25142.812	-4.458	0.203	1.00	0.00 H
ATOM	307	1HB	GLU A	25140.640	-5.526	0.794	1.00	0.00 H
ATOM	308	2HB	GLU A	25139.984	-4.963	-0.738	1.00	0.00 H
ATOM	309	1HG	GLU A	25141.704	-6.281	-1.917	1.00	0.00 H
ATOM	310	2HG	GLU A	25142.255	-6.900	-0.362	1.00	0.00 H
ATOM	311	N	VAL A	26143.058	-4.363	-2.340	1.00	0.00 N
ATOM	312	CA	VAL A	26143.405	-4.034	-3.718	1.00	0.00 C
ATOM	313	C	VAL A	26143.016	-5.163	-4.667	1.00	0.00 C
ATOM	314	O	VAL A	26142.958	-6.327	-4.272	1.00	0.00 O
ATOM	315	CB	VAL A	26144.911	-3.750	-3.867	1.00	0.00 C
ATOM	316	CG1	VAL A	26145.220	-3.217	-5.257	1.00	0.00 C
ATOM	317	CG2	VAL A	26145.378	-2.775	-2.798	1.00	0.00 C
ATOM	318	H	VAL A	26143.507	-5.116	-1.903	1.00	0.00 H
ATOM	319	HA	VAL A	26142.862	-3.141	-3.995	1.00	0.00 H
ATOM	320	HB	VAL A	26145.446	-4.679	-3.735	1.00	0.00 H
ATOM	321	1HG1	VAL A	26146.167	-2.698	-5.241	1.00	0.00 H
ATOM	322	2HG1	VAL A	26144.441	-2.535	-5.563	1.00	0.00 H
ATOM	323	3HG1	VAL A	26145.272	-4.039	-5.955	1.00	0.00 H
ATOM	324	1HG2	VAL A	26144.985	-3.076	-1.838	1.00	0.00 H

ATOM	325	2HG2 VAL A	26145.026	-1.782	-3.036	1.00	0.00	H
ATOM	326	3HG2 VAL A	26146.458	-2.773	-2.759	1.00	0.00	H
ATOM	327	N LYS A	27142.751	-4.810	-5.921	1.00	0.00	N
ATOM	328	CA LYS A	27142.369	-5.793	-6.927	1.00	0.00	C
ATOM	329	C LYS A	27143.583	-6.248	-7.731	1.00	0.00	C
ATOM	330	O LYS A	27144.100	-5.507	-8.567	1.00	0.00	O
ATOM	331	CB LYS A	27141.311	-5.209	-7.865	1.00	0.00	C
ATOM	332	CG LYS A	27140.596	-6.257	-8.703	1.00	0.00	C
ATOM	333	CD LYS A	27139.384	-5.672	-9.410	1.00	0.00	C
ATOM	334	CE LYS A	27139.017	-6.478	-10.646	1.00	0.00	C
ATOM	335	NZ LYS A	27137.542	-6.568	-10.832	1.00	0.00	N
ATOM	336	H LYS A	27142.815	-3.865	-6.176	1.00	0.00	H
ATOM	337	HA LYS A	27141.951	-6.647	-6.414	1.00	0.00	H
ATOM	338	1HB LYS A	27140.573	-4.686	-7.276	1.00	0.00	H
ATOM	339	2HB LYS A	27141.787	-4.509	-8.535	1.00	0.00	H
ATOM	340	1HG LYS A	27141.280	-6.641	-9.443	1.00	0.00	H
ATOM	341	2HG LYS A	27140.271	-7.060	-8.057	1.00	0.00	H
ATOM	342	1HD LYS A	27138.545	-5.673	-8.729	1.00	0.00	H
ATOM	343	2HD LYS A	27139.607	-4.657	-9.707	1.00	0.00	H
ATOM	344	1HE LYS A	27139.452	-6.003	-11.512	1.00	0.00	H
ATOM	345	2HE LYS A	27139.419	-7.475	-10.542	1.00	0.00	H
ATOM	346	1HZ LYS A	27137.058	-6.447	-9.919	1.00	0.00	H
ATOM	347	2HZ LYS A	27137.287	-7.496	-11.226	1.00	0.00	H
ATOM	348	3HZ LYS A	27137.218	-5.825	-11.485	1.00	0.00	H
ATOM	349	N GLU A	28144.031	-7.473	-7.475	1.00	0.00	N
ATOM	350	CA GLU A	28145.184	-8.026	-8.174	1.00	0.00	C
ATOM	351	C GLU A	28145.135	-9.551	-8.180	1.00	0.00	C

ATOM	352	O	GLU A	28144.125	-10.152	-7.814	1.00	0.00	O
ATOM	353	CB	GLU A	28146.483	-7.545	-7.523	1.00	0.00	C
ATOM	354	CG	GLU A	28147.503	-7.017	-8.517	1.00	0.00	C
ATOM	355	CD	GLU A	28148.752	-7.873	-8.585	1.00	0.00	C
ATOM	356	OE1	GLU A	28149.528	-7.872	-7.606	1.00	0.00	O
ATOM	357	OE2	GLU A	28148.955	-8.548	-9.617	1.00	0.00	O
ATOM	358	H	GLU A	28143.576	-8.016	-6.798	1.00	0.00	H
ATOM	359	HA	GLU A	28145.152	-7.674	-9.194	1.00	0.00	H
ATOM	360	1HB	GLU A	28146.249	-6.755	-6.824	1.00	0.00	H
ATOM	361	2HB	GLU A	28146.929	-8.368	-6.983	1.00	0.00	H
ATOM	362	1HG	GLU A	28147.052	-6.989	-9.497	1.00	0.00	H
ATOM	363	2HG	GLU A	28147.786	-6.016	-8.224	1.00	0.00	H
ATOM	364	N	ASN A	29146.234	-10.172	-8.599	1.00	0.00	N
ATOM	365	CA	ASN A	29146.317	-11.626	-8.650	1.00	0.00	C
ATOM	366	C	ASN A	29146.467	-12.213	-7.249	1.00	0.00	C
ATOM	367	O	ASN A	29145.645	-13.020	-6.814	1.00	0.00	O
ATOM	368	CB	ASN A	29147.493	-12.059	-9.529	1.00	0.00	C
ATOM	369	CG	ASN A	29147.063	-12.398	-10.943	1.00	0.00	C
ATOM	370	OD1	ASN A	29146.874	-13.566	-11.284	1.00	0.00	O
ATOM	371	ND2	ASN A	29146.907	-11.375	-11.776	1.00	0.00	N
ATOM	372	H	ASN A	29147.008	-9.638	-8.876	1.00	0.00	H
ATOM	373	HA	ASN A	29145.400	-11.995	-9.085	1.00	0.00	H
ATOM	374	1HB	ASN A	29148.214	-11.257	-9.576	1.00	0.00	H
ATOM	375	2HB	ASN A	29147.958	-12.932	-9.095	1.00	0.00	H
ATOM	376	1HD2	ASN A	29147.076	-10.472	-11.435	1.00	0.00	H
ATOM	377	2HD2	ASN A	29146.629	-11.566	-12.696	1.00	0.00	H
ATOM	378	N	PRO A	30147.526	-11.816	-6.522	1.00	0.00	N

ATOM	379	CA	PRO A	30147.782	-12.306	-5.166	1.00	0.00 C
ATOM	380	C	PRO A	30146.884	-11.635	-4.126	1.00	0.00 C
ATOM	381	O	PRO A	30147.049	-10.453	-3.828	1.00	0.00 O
ATOM	382	CB	PRO A	30149.243	-11.926	-4.932	1.00	0.00 C
ATOM	383	CG	PRO A	30149.448	-10.704	-5.760	1.00	0.00 C
ATOM	384	CD	PRO A	30148.557	-10.856	-6.965	1.00	0.00 C
ATOM	385	HA	PRO A	30147.671	-13.378	-5.105	1.00	0.00 H
ATOM	386	1HB	PRO A	30149.403	-11.727	-3.883	1.00	0.00 H
ATOM	387	2HB	PRO A	30149.884	-12.733	-5.255	1.00	0.00 H
ATOM	388	1HG	PRO A	30149.166	-9.829	-5.194	1.00	0.00 H
ATOM	389	2HG	PRO A	30150.482	-10.638	-6.064	1.00	0.00 H
ATOM	390	1HD	PRO A	30148.113	-9.908	-7.225	1.00	0.00 H
ATOM	391	2HD	PRO A	30149.117	-11.252	-7.799	1.00	0.00 H
ATOM	392	N	PRO A	31145.919	-12.382	-3.559	1.00	0.00 N
ATOM	393	CA	PRO A	31145.001	-11.844	-2.550	1.00	0.00 C
ATOM	394	C	PRO A	31145.700	-11.555	-1.226	1.00	0.00 C
ATOM	395	O	PRO A	31146.226	-12.461	-0.579	1.00	0.00 O
ATOM	396	CB	PRO A	31143.968	-12.960	-2.376	1.00	0.00 C
ATOM	397	CG	PRO A	31144.686	-14.204	-2.768	1.00	0.00 C
ATOM	398	CD	PRO A	31145.648	-13.802	-3.851	1.00	0.00 C
ATOM	399	HA	PRO A	31144.511	-10.946	-2.899	1.00	0.00 H
ATOM	400	1HB	PRO A	31143.644	-12.996	-1.346	1.00	0.00 H
ATOM	401	2HB	PRO A	31143.121	-12.775	-3.019	1.00	0.00 H
ATOM	402	1HG	PRO A	31145.224	-14.600	-1.918	1.00	0.00 H
ATOM	403	2HG	PRO A	31143.982	-14.932	-3.142	1.00	0.00 H
ATOM	404	1HD	PRO A	31146.553	-14.388	-3.790	1.00	0.00 H
ATOM	405	2HD	PRO A	31145.189	-13.914	-4.822	1.00	0.00 H

ATOM	406	N	PHE A	32145.703	-10.287	-0.828	1.00	0.00	N
ATOM	407	CA	PHE A	32146.338	-9.878	0.420	1.00	0.00	C
ATOM	408	C	PHE A	32145.479	-8.858	1.160	1.00	0.00	C
ATOM	409	O	PHE A	32144.591	-8.238	0.574	1.00	0.00	O
ATOM	410	CB	PHE A	32147.723	-9.291	0.142	1.00	0.00	C
ATOM	411	CG	PHE A	32147.736	-8.287	-0.975	1.00	0.00	C
ATOM	412	CD1	PHE A	32148.424	-8.547	-2.150	1.00	0.00	C
ATOM	413	CD2	PHE A	32147.060	-7.083	-0.851	1.00	0.00	C
ATOM	414	CE1	PHE A	32148.438	-7.626	-3.180	1.00	0.00	C
ATOM	415	CE2	PHE A	32147.070	-6.158	-1.878	1.00	0.00	C
ATOM	416	CZ	PHE A	32147.760	-6.429	-3.044	1.00	0.00	C
ATOM	417	H	PHE A	32145.267	-9.610	-1.386	1.00	0.00	H
ATOM	418	HA	PHE A	32146.447	-10.756	1.038	1.00	0.00	H
ATOM	419	1HB	PHE A	32148.083	-8.799	1.033	1.00	0.00	H
ATOM	420	2HB	PHE A	32148.399	-10.090	-0.120	1.00	0.00	H
ATOM	421	HD1	PHE A	32148.955	-9.482	-2.257	1.00	0.00	H
ATOM	422	HD2	PHE A	32146.521	-6.871	0.060	1.00	0.00	H
ATOM	423	HE1	PHE A	32148.978	-7.839	-4.090	1.00	0.00	H
ATOM	424	HE2	PHE A	32146.540	-5.224	-1.769	1.00	0.00	H
ATOM	425	HZ	PHE A	32147.770	-5.708	-3.847	1.00	0.00	H
ATOM	426	N	TYR A	33145.750	-8.690	2.450	1.00	0.00	N
ATOM	427	CA	TYR A	33145.001	-7.746	3.272	1.00	0.00	C
ATOM	428	C	TYR A	33145.945	-6.812	4.022	1.00	0.00	C
ATOM	429	O	TYR A	33146.943	-7.251	4.594	1.00	0.00	O
ATOM	430	CB	TYR A	33144.109	-8.494	4.264	1.00	0.00	C
ATOM	431	CG	TYR A	33142.774	-8.908	3.687	1.00	0.00	C
ATOM	432	CD1	TYR A	33142.316	-10.213	3.813	1.00	0.00	C

ATOM	433	CD2 TYR A	33141.973	-7.993	3.014	1.00	0.00	C
ATOM	434	CE1 TYR A	33141.097	-10.594	3.287	1.00	0.00	C
ATOM	435	CE2 TYR A	33140.752	-8.368	2.486	1.00	0.00	C
ATOM	436	CZ TYR A	33140.319	-9.668	2.625	1.00	0.00	C
ATOM	437	OH TYR A	33139.104	-10.045	2.099	1.00	0.00	O
ATOM	438	H TYR A	33146.469	-9.214	2.860	1.00	0.00	H
ATOM	439	HA TYR A	33144.379	-7.156	2.615	1.00	0.00	H
ATOM	440	1HB TYR A	33144.620	-9.387	4.592	1.00	0.00	H
ATOM	441	2HB TYR A	33143.921	-7.859	5.117	1.00	0.00	H
ATOM	442	HD1 TYR A	33142.927	-10.935	4.333	1.00	0.00	H
ATOM	443	HD2 TYR A	33142.316	-6.975	2.907	1.00	0.00	H
ATOM	444	HE1 TYR A	33140.757	-11.614	3.396	1.00	0.00	H
ATOM	445	HE2 TYR A	33140.144	-7.642	1.967	1.00	0.00	H
ATOM	446	HH TYR A	33138.462	-10.131	2.807	1.00	0.00	H
ATOM	447	N GLY A	34145.623	-5.522	4.016	1.00	0.00	N
ATOM	448	CA GLY A	34146.453	-4.548	4.700	1.00	0.00	C
ATOM	449	C GLY A	34145.682	-3.302	5.091	1.00	0.00	C
ATOM	450	O GLY A	34144.454	-3.272	5.009	1.00	0.00	O
ATOM	451	H GLY A	34144.817	-5.230	3.543	1.00	0.00	H
ATOM	452	1HA GLY A	34146.861	-5.001	5.591	1.00	0.00	H
ATOM	453	2HA GLY A	34147.267	-4.264	4.049	1.00	0.00	H
ATOM	454	N VAL A	35146.405	-2.272	5.520	1.00	0.00	N
ATOM	455	CA VAL A	35145.783	-1.018	5.927	1.00	0.00	C
ATOM	456	C VAL A	35146.505	0.177	5.313	1.00	0.00	C
ATOM	457	O VAL A	35147.721	0.150	5.125	1.00	0.00	O
ATOM	458	CB VAL A	35145.769	-0.870	7.462	1.00	0.00	C
ATOM	459	CG1 VAL A	35147.188	-0.848	8.012	1.00	0.00	C

ATOM	460	CG2 VAL A	35145.010	0.383	7.873	1.00	0.00	C
ATOM	461	H VAL A	35147.380	-2.359	5.565	1.00	0.00	H
ATOM	462	HA VAL A	35144.760	-1.026	5.579	1.00	0.00	H
ATOM	463	HB VAL A	35145.261	-1.726	7.880	1.00	0.00	H
ATOM	464	1HG1 VAL A	35147.862	-1.287	7.291	1.00	0.00	H
ATOM	465	2HG1 VAL A	35147.226	-1.413	8.931	1.00	0.00	H
ATOM	466	3HG1 VAL A	35147.483	0.173	8.204	1.00	0.00	H
ATOM	467	1HG2 VAL A	35143.960	0.255	7.654	1.00	0.00	H
ATOM	468	2HG2 VAL A	35145.392	1.231	7.324	1.00	0.00	H
ATOM	469	3HG2 VAL A	35145.140	0.551	8.931	1.00	0.00	H
ATOM	470	N ILE A	36145.747	1.224	5.003	1.00	0.00	N
ATOM	471	CA ILE A	36146.316	2.429	4.411	1.00	0.00	C
ATOM	472	C ILE A	36147.242	3.136	5.395	1.00	0.00	C
ATOM	473	O ILE A	36146.961	3.200	6.592	1.00	0.00	O
ATOM	474	CB ILE A	36145.216	3.410	3.960	1.00	0.00	C
ATOM	475	CG1 ILE A	36144.192	2.693	3.078	1.00	0.00	C
ATOM	476	CG2 ILE A	36145.828	4.590	3.218	1.00	0.00	C
ATOM	477	CD1 ILE A	36143.055	3.584	2.627	1.00	0.00	C
ATOM	478	H ILE A	36144.783	1.186	5.177	1.00	0.00	H
ATOM	479	HA ILE A	36146.887	2.136	3.542	1.00	0.00	H
ATOM	480	HB ILE A	36144.720	3.789	4.841	1.00	0.00	H
ATOM	481	1HG1 ILE A	36144.686	2.316	2.196	1.00	0.00	H
ATOM	482	2HG1 ILE A	36143.767	1.866	3.629	1.00	0.00	H
ATOM	483	1HG2 ILE A	36146.782	4.299	2.805	1.00	0.00	H
ATOM	484	2HG2 ILE A	36145.968	5.413	3.903	1.00	0.00	H
ATOM	485	3HG2 ILE A	36145.168	4.894	2.420	1.00	0.00	H
ATOM	486	1HD1 ILE A	36143.454	4.434	2.094	1.00	0.00	H